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PHASE II REPORT

USAF LOGISTICS PROCESS OPTIMIZATION STUDY

for the

Aircraft Asset Sustainment Process

AFLMA Project LM9731101

Volume I of III

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TABLE OF CONTENTS VOLUME I

CHAPTER 1		INTRODUCTION	3
СНАРТЕ	ER 2	BACKGROUND	5
2.1	SCOP	E	5
	2.1.1	Test Initiatives	5
	2.1.2	To Be Process Model Development	6
	2.1.3	Future Process Model Development	6
2.2	METH	HODOLOGY	7
2.3	REEN	IGINEERING TEAM MEMBERSHIP	8
CHAPTE	ER 3	ASSUMPTIONS AND CONSTRAINTS	9
СНАРТЕ	ER 4	PHASE II TEST	11
SECT	ION 1	DIRECT SHIP	11
4.1	SHIPI	PING PROCESS	11
	4.1.1	As Is Shipping Process	
	4.1.2	To Be Direct Ship Process	
	4.1.3	As Is versus To Be Direct Ship Comparison	16
	4.1.4	Cost/Benefit Analysis	17
		4.1.4.1 Packaging and FedEx Processing	
		4.1.4.2 Package Movement to TMF	
	4.1.5	Implementation Issues	
	4.1.6	Other Observations	21
SECT	ION 2	DIRECT RECEIPT	23
4.2	RECE	EIVING PROCESS	23
	4.2.1	As Is Receiving Process	24
	4.2.2	To Be Direct Receipt Process	
	4.2.3	As Is versus To Be Direct Receipt Comparison	
	4.2.4	Cost/Benefit Analysis	
		4.2.4.1 TMF In-Check	
		4.2.4.2 Supply In-Check	
		4.2.4.3 Customer Delivery	
		4.2.4.4 Other Benefits	
	4.2.5	<u>1</u>	
		4.2.5.1 Definition of Direct Receipt	
		4.2.5.2 Determining Methodology	
	4.2.6	Other Observations	35
	ION 3		
4.3	MICA	AP REQUISITIONING PROCESS	37
	4.3.1	As Is MICAP Process	37

		4.3.1.1	Log-On SBSS/MASS and Pull Up Requisitions to be Worked	38
		4.3.1.2	Check D035 for Asset Availability	38
		4.3.1.3	Requisition Asset from D035	38
		4.3.1.4	Generate a Special Requisition (SPR) to SBSS	38
		4.3.1.5	Check D035 Requisition Status	39
		4.3.1.6	Check DLA Shipping Status	39
		4.3.1.7	Manual Status Reporting	39
	4.3.2	To Be N	AICAP Process Using SBSS to D035 Wrapper	40
		4.3.2.1	Log-On SBSS/MASS and Pull-Up Requisitions to be Worked	41
		4.3.2.2	Check D035 for Asset Availability	41
		4.3.2.3	Requisition Asset from D035	41
		4.3.2.4	Generate a Special Requisition (SPR) to SBSS	42
		4.3.2.5	Check D035 Requisition Status	
		4.3.2.6	Check DLA Shipping Status	42
		4.3.2.7	Automated Status Reporting	42
	4.3.3	As Is ve	rsus To Be Comparison	43
	4.3.4		nefit Analysis	
	4.3.5	Potentia	ll Future Improvements for the SBSS to D035 Wrapper Application	on 50
CHAPTI	ER 5	STUDY	COST/BENEFIT ANALYSIS	53
5.1	Direct	Ship		53
5.2				
5.3			Wrapper	
5.4			Savings	
CHAPTI			USIONS	
CHAIL		CONCI	0010110	55
CUADTI	ED 7	RECON	MEND ATIONS	57

APPENDICES

- A. LIST OF ACRONYMS AND GLOSSARY
 - A.1 Acronyms
 - A.2 Standard Organizations
 - A.3 Forms/Documents/Reports
 - A.4 Systems
- B. PHASE I FINDINGS
- C. SOURCE DATA
- D. SUBJECT MATTER EXPERTS
- E. USER INSTRUCTIONS FOR THE SBSS TO D035 WRAPPER

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LIST OF FIGURES

Number	Title	Page	3
Figure 1 - As Is Shipping Proc	ess	1	2
			4
Figure 3- Express Carrier Elig	ibility Decision Tree		5
Figure 4 - CRS-TMF Processi	ng Time Comparison		7
Figure 5 - As Is Receipt	·····	2	25
Figure 6 - To Be Direct Recei	pt	2	26
			28
Figure 8 - Langley AFB Recei	pt Data	3	1
Figure 9- Langley AFB Due-C	Out Release Recipients	3	31
Figure 10 - As Is MICAP Prod	cess	3	37
Figure 11 - To Be MICAP Pro	ocess	4	10
Figure 12 - Request Form	•••••		1
•		eb site	
	-		
•	•		
	-		

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LIST OF TABLES

Number	<u>Title</u>	Page
Table 1 -	Manpower Impact Computation	18
Table 2 -	Vehicle O&M Calculations	19
Table 3 -	Per Day Manpower Savings	19
Table 4 -	Annual Savings Potential	19
Table 5 -	E-5 Pay Rates	20
Table 6 ·	ACC Total Potential Annual Direct Ship Savings	20
Table 7	· CMOS HHT In-Check Times (with hand held terminal)	29
Table 8 ·	Descriptive Statistics SBSS Creation to P&D Time-Stamp	29
Table 9	Descriptive Statistics P&D to Customer Times	30
Table 10	- Direct Receipt Processing Times	30
Table 11	- Total ACC Potential Direct Receipt Annual Savings	32
Table 12	- Annual Savings from Direct Receipt	32
	- Wrapper Time Comparison	
	- AFCSS MICAP Section Workload	
Table 15	- Summary of Potential Savings	54

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EXECUTIVE SUMMARY

This "USAF Logistics Process Optimization Study for the Aircraft Asset Sustainment Process -- Phase II Report" is the second in a series of technical reports prepared under AFLMA Project LM9731101. It is published as three separate volumes.

Volume I, "USAF Logistics Process Optimization Study for the Aircraft Asset Sustainment Process -- Phase II Report," discusses the result and cost/benefit analysis of testing three initiatives at Langley Air Force Base as possible solutions to several findings discussed in the Phase I Report, "USAF Logistics Asset Sustainment As Is Process."

Volume II, "ACC To Be Model", contains the To-Be Retail Asset Sustainment Process Model displaying the activities and functions related to the improved processes for receipt, storage, issue and delivery of materiel as tested at Langley Air Force Base, Virginia, and recommended for USAF adoption.

Volume III, "Future To Be Asset Sustainment Process Model," is published as a stand-alone volume of this report. Volume III contains a discussion of the Reengineering Team's efforts in the development of a logistics process model for a more distant future retail aircraft asset sustainment scenario unconstrained by today's logistics information systems limitations. It also contains a conceptual process model reflecting the Reengineering Team's vision of the future asset sustainment process.

The following conclusions are explained in this report:

- 1. Direct Ship can save both manpower and money if implemented properly. Certain criteria should be considered before implementing Direct Ship
- 2. Direct Receipt can save manpower, money, and asset pipeline time if implemented in locations with the proper facilities. Conceptually, Direct Receipt could apply to any asset, regardless of size or special handling requirements. However, there are some considerations that should be evaluated before implementing Direct Receipt
- 3. Wrapper Applications have tremendous potential to decrease workload and streamline operations in MICAP sections, as well as many other units. Any task with the potential to be automated or any situation that requires data transfer between systems is a candidate to benefit from wrapper applications.

The Reengineering Team's recommendations are outlined on the following page.

- 1. Implement Direct Ship (with a scheduled and on-call on base asset movement concept) in units that meet the criteria of being an appropriate Direct Ship site.
- 2. Implement Direct Receipt (with a scheduled and on-call on base asset movement concept) in units that meet the criteria of being an appropriate Direct Ship site.
- 3. Pursue further testing and development of the SBSS to D035 Wrapper Application.
- 4. Adopt the ACC To-Be Model (Volume II of this report) as the baseline USAF To-Be Model for the short term.
- 5. Use the ACC To-Be Model (Volume II of this report) to further expand process descriptions and/or identify additional areas for improvement studies.
- 6. Use the Future To Be Asset Sustainment Process Model, found in Volume III, to foster discussions on the future processes and concepts for logistics and establish strategic direction for overarching reengineering efforts.
- 7. Use the Phase I Logistics Process Optimization Study findings and other reengineering initiatives to develop a prioritized list of reengineering opportunities and a strategy to pursue those opportunities.
- 8. Pursue development of a solution for the "air gap" between CMOS and SBSS/SATS.

Chapter 1 INTRODUCTION

"People tell the story that reengineering is like taking off in a 727 and landing in a 747. There is no way to land the plane and fix everything. You start from where you are."

The Air Force is being challenged by many different factors such as constrained budgets, smaller force structure, increasing demands for non-traditional missions, and the threat of multiple regional conflicts. Additionally, the Air Force Logistics Strategic Plan includes the goals of improving support to combat units in peace and war, reducing customer wait times, developing a seamless logistics system, and streamlining the logistics infrastructure.

In response to these numerous mandates for logistics changes, including legal and modernization requirements, Headquarters US Air Force Installation and Logistics Plans and Integration Directorate (HQ USAF/ILX) tasked the Air Force Logistics Management Agency (AFLMA) in Feb 1997 to examine Air Force Logistics processes from the highest levels and from a holistic perspective. Specifically, the study had the following objectives:

- Develop a road map to identify opportunities and requirements for logistics process reengineering
- Prioritize those reengineering opportunities and requirements
- Provide recommendations

Due to the breadth of Air Force logistics management, ILX limited the scope of the study to initially focus on Aircraft Asset Management, defining it as selected logistics activities supporting sortie production of operational aircraft.

To accomplish the above objectives, AFLMA contracted with Intergraph Federal Systems, a corporation with a proven track record in Business Process Reengineering. Using DOD-accepted Functional Process Improvement practices, the Reengineering Team and functional experts from Warner Robins Air Logistics Center (WR-ALC), Defense Logistics Agency (DLA), Headquarters Air Combat Command (HQ ACC), and the 1st Fighter Wing (1FW) began developing the "road map" by:

- Building As-Is Activity and Process Models of Aircraft Asset Sustainment
- Identifying reengineering opportunities where redundant or unnecessary processes were observed
- Prioritizing opportunities by estimated level of difficulty and duration of reengineering effort

¹ Caudle, Sharon L., <u>Reengineering for Results: Keys to Success from Government Experience</u>, National Academy of Public Administration, Washington D.C., 1995.

 Providing recommendations for implementation, subject to senior management review and approval

In Dec 1997, Intergraph published the 2-volume "USAF Logistics Asset Sustainment As-Is Process" Report. Volume 1 described the existing Air Force Logistics Asset Sustainment Process, and provided a listing of 29 findings and recommendations, prioritized as near-term, mid-term and long-term reengineering opportunities. Volume 2 of the report captured the existing asset sustainment process as both an Integrated Definition (IDEF) Activity Model (IDEF-0) and a Process Model (IDEF-3).

"The tremendous potential of reengineering business functions prior to automating is also not being fully tapped, unlike successful private sector efforts. For the government to reduce costs, increase service, and raise productivity, new information systems should not be developed simply to automate existing inefficient or ineffective processes. This has been a hard lesson for federal agencies to learn...."

Recognizing the As-Is process model as a tool for identifying areas for improvements and as the springboard for developing To-Be processes, AFLMA, with HQ USAF/ILX concurrence, extended the contract with Intergraph for a second phase of study. For Phase II, seven near-and mid-term findings were selected as candidates to:

- Design improved or reengineered processes
- Conduct a proof of concept for reengineered processes
- Validate gains attributed to reengineered processes
- Assist in implementation of reengineered processes

In addition, Performance Work Statement tasks were included for development of a To-Be Retail Asset Sustainment Process Model. HQ ACC, in concert with their own reengineering and consolidation efforts, volunteered to assist in developing To-Be processes and participate in the test objectives for all seven findings at Langley AFB, VA. The To-Be Model developed at ACC focused on the near-term future and captured many of the on-going and planned improvement tests at ACC (such as the Shaw Transportation/Supply Merger) in addition to the initiatives AFLMA tested.

² GAO Testimony, Committee on Governmental Affairs, United States Senate, February 2, 1995

Chapter 2 BACKGROUND

This report is the second in a series of technical reports prepared under AFLMA Project LM9731101.

In general, this second phase of the USAF Logistics Process Optimization Study for the Aircraft Asset Sustainment Process was to:

- Focus base activity logistics support on readiness and war fighter requirements (i.e., clear prioritization enabling everyone to "do the right thing").
- Create an infrastructure to provide all necessary parts, technical skills, etc., to enable accomplishment of the top priority activities (i.e., enabling everyone to "do the right thing" as fast and efficiently as possible).
- Resolve and improve system support problems with legacy logistics systems, as well as
 provide a basis for development of new logistics systems, such as the Integrated
 Logistics System Supply (ILSS) and the Integrated Maintenance Data System
 (IMDS).

2.1 SCOPE

2.1.1 Test Initiatives

The Phase II study focused on ACC logistics asset sustainment processes and activities that directly support sortie production of operational aircraft. It also included determining what changes could be made to logistics information technology/systems to support an ACC, followed by Air Force, integrated concept of asset sustainment in the fastest, cheapest, most maintainable fashion.

Specifically, the Phase II study focused on the following seven findings from the Phase I study:

- Unnecessary Asset Handling in Base Shipping Process (Finding 3.2.5)
- Unnecessary Asset Handling in Base Receiving Process (Finding 3.2.4)
- Unnecessary Cargo Movement Operations System (CMOS) Processing (Finding 3.2.9)
- Air Force Contingency Supply Squadron (AFCSS) Potential Capabilities Not Fully Developed (Finding 3.2.12)
- Resource Intensive Mission Capable (MICAP) Off-line Requisitioning Process (Finding 3.2.10)
- Limited Interface Between Legacy Systems (Finding 3.1.5)
- Interface Between the Standard Base Supply System (SBSS) and the Depot Inventory Management System (D035) is Slow and Uncertain (Finding 3.2.6)

The following three initiatives were developed and tested at Langley AFB as possible solutions to the above findings.

- Direct Ship
- Direct Receipt
- Use of Commercial Off-The-Shelf (COTS) software for legacy system integration

The results of these tests and the associated cost/benefit analyses are published in this Volume I report.

2.1.2 To Be Process Model Development

This report includes an IDEF-3 To-Be Retail Asset Sustainment Process Model displaying the activities and functions related to the receipt, storage, issue and delivery of materiel as tested at Langley Air Force Base, Virginia. This To-Be model was developed with ACC assistance and focused on the near-term future. It incorporates many of the on-going and planned improvement tests at ACC (such as the Shaw Transportation/Supply Merger), in addition to the initiatives AFLMA tested. The IDEF-3 model is published as Volume II, ACC To Be Model, of this report.

2.1.3 Future Process Model Development

In March 1998, HQ USAF/ILXI reviewed the Reengineering Team's As Is and To Be process models and requested the team develop a To Be model for a more distant future asset sustainment scenario, unconstrained by today's logistics information systems limitations. The Reengineering Team developed the initial 'distant future' To Be process model after reviewing published Air Force documents regarding vision, future doctrine, and mission forecasts. Reviewed sources included:

- Air Force 2025
- Joint Vision 2010
- Supply 2000
- Quadrennial Defense Review
- Air Force Long Range Plan
- Air Force Logistics Strategic Plan
- DOD Logistic Strategic Plan
- Global Engagement: A Vision for the 21st Century Air Force
- Global Combat Support System Concept of Operations
- 1998 Scientific Advisory Board Report on Air Expeditionary Force (AEF) Concepts

Using these publications, the Reengineering Team merged the presented concepts with current technology and functional momentum. The result was the team's outlined perception of an IDEF-3 future (roughly 10-20 years out) logistics process model. A more in-depth discussion of the development of this future process model and the issues associated with it may be found in Volume III, Future To Be Asset Sustainment Process Model.

2.2 METHODOLOGY

"Only processes can be reengineered. Before you can reengineer your processes, you must identify them."

The Reengineering Team used an Integrated Definition (IDEF) Process Modeling tool to determine how activities could (or will) be done and to identify the sequence of activities. Using Knowledge Based System Incorporated's (KBSI) ProSim, Version 2.1.5.1, the team developed IDEF-3 To Be process models to test the three initiatives at Langley AFB, VA.

This study followed the standard methodology for Department of Defense (DOD) Functional Process Improvement in accordance with Department of Defense Directive (DODD) 8020.1M:

- 1. Establish the Framework
- 2. Document the Baseline (As Is)
- 3. Analyze and Design Improvements (To Be)
- 4. Develop a Management Plan to Implement Improvements
- 5. Obtain Approval of the Plan, and
- 6. Execute the Approved Plan.

The Phase I study accomplished the first two DOD Functional Process Improvement steps with minimum analysis, testing and redesign efforts. The Phase I study provided a road map for change, which identified immediate improvement opportunities and identified areas for further study and analysis. A recapitulation of the findings outlined in the Phase I Report is included in Appendix B.

This Phase II study continued the process improvement methodology by completing step 3 and, through testing the initiatives, developed specific recommendations for accomplishing step 4. This was done by gathering subject matter experts to assist in the development of a To Be process model. Using the As Is process model developed in the Phase I study as a foundation, we capitalized on improvements already tested within the command and incorporated several ACC-sponsored initiatives such as the Dyess Express, the Shaw Transportation/Supply Merger, Supply Asset Tracking System (SATS), and ACC's Contingency Supply Support Squadron. The To Be process model displays those tasks involving actual work accomplishment and information processing. It is illustrative of the typical Supply, Maintenance and Transportation tasks involved in this process at Air Combat Command (ACC) bases and contains appropriate process flows connecting related wholesale logistics activities. This To Be process can be applied, taught, and used Air Force wide.

Specific methodologies used to test the initiatives are discussed within their respective sections of this report.

³ Michael Hammer, The Reengineering Revolution, A Handbook, 1995

2.3 REENGINEERING TEAM MEMBERSHIP

Conducting the analysis involved a team effort between AFLMA, Intergraph Corporation, Headquarters Air Combat Command (HQ ACC) and Langley AFB 1st Fighter Wing personnel. Intergraph and core AFLMA team members traveled to Langley Air Force Base (AFB) to interview subject matter experts for the purpose of selecting, developing and testing process improvements. Appendix D lists personnel who provided the team subject matter expertise.

2.3.1 AFLMA Core Reengineering Team: Full-time members of the Logistics Process Optimization Team.

Team Leader and Maintenance Glenn Barney Major DSN 596-4581 Representative (Through May 1998)

Team Leader, Maintenance, Dorothy Tribble Major DSN 596-4581 and Transportation Representative dorothy.tribble@aflma.gunter.af.mil (Effective February 1998)

Supply Representative Brad Anderson Captain DSN 596-4165 bradley.anderson@aflma.gunter.af.mil

Transportation Representative Inez Sookma Captain DSN 596-4581 (Through December 1997)

2.3.2 Intergraph Members: The following Intergraph personnel assisted the Logistics Process Optimization Team. (1-800-239-2500 & Extension)

Facilitation/Planning	Anthony Adamson	256-730-7762	aadamson@ingr.com
Technographer	Ellen Parker	207-443-9393	eparker1@ingr.com
Wrapper Systems	Tom Krajna	256-730- <u>7353</u>	tkrajna@ingr.com

2.3.3 Sponsorship & Oversight: These stewards provided overall scope and guidance.

Project Sponsorship	Robert Wolff	Doctor AF/ILX	DSN 227-8129
Project Oversight	Richard Bereit	Colonel AFLMA/CC	DSN 596-4511
Depot Reengineering	Don Klovstad	Colonel WR-ALC/RE	DSN 468-1274
HQ ACC Supply	James Daup	Colonel HQ ACC/LGS	DSN 574-3414

Chapter 3 ASSUMPTIONS AND CONSTRAINTS

The results in this report are limited by the scope and application from which they were obtained. Most data was collected from the 1st Fighter Wing's Component Repair Squadron (CRS) Engine Shop. In applying the results of this study across the Air Force, many of the assumptions and constraints listed below need to be considered. Recommendations at the end of this report will attempt to apply this study's results to the appropriate operations and address criteria to be considered before deciding upon implementation of the concepts.

Assumptions:

The 1st Fighter Wing's operations and processes, specifically the CRS Engine Shop Supply Support Section, are representative of operational locations throughout the Air Force.

We assume Traffic Management Flight (TMF) and Supply Receiving are co-located, or TMF personnel will meet arriving property at the receiving location with supply personnel. If these activities are not co-located, additional savings may be realized for any property movement eliminated.

Results from the following reports/documentation are also discussed in this report:

- Report No. SID/17551, Functional Economic Analysis Report on Investment Decision for Using Radio Frequency Technologies in the Standard Base Supply System (a.k.a. Supply Asset Tracking System-SATS)
- Shaw Transportation/Supply Merger documentation
- Reengineering Proof-of-Concept, AFLMA Final Report LM9617100
- Dyess Express documentation

We did not attempt to replicate or validate the reported efficiencies/savings cited in the above reports.

Constraints:

This study did not examine the shipping processes from depot to base-level customers or the parts movement within the local repair process.

The Direct Ship test used a Federal Express (FedEx) terminal installed in the CRS Engine Shop to produce express shipment manifests. As a result, the test results are confined to a single express carrier.

Certain criteria should be considered before implementing the recommendations contained in this report. These criteria are discussed in the Implementation Issues of each section in Chapter 4, Phase II Test, and are reiterated in Chapter 6, Recommendations.

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Chapter 4 PHASE II TEST

SECTION 1 -- DIRECT SHIP

4.1 SHIPPING PROCESS

This portion of the study focused on the off-base evacuation of Not Reparable This Station (NRTS) assets. For the purpose of this study, we defined Direct Ship as the process to ship express carrier-eligible packages directly from non-centralized support section locations at base-level to the designated source of repair. Examination of the shipping processes from the depot to base-level customers and movement within the local repair processes were not included as part of this study.

The Phase I report identified Direct Ship as a potential process improvement for eliminating unnecessary asset handling and data processing. HQ ACC agreed to work with the Reengineering Team to answer the questions: "Will Direct Ship improve the base-level process," and, if so, "What are the benefits?"

HQ ACC's 1st Fighter Wing selected the CRS Engine Shop as the best (representative sample) site for testing Direct Ship based on the number of Not Reparable This Station (NRTS) assets processed daily that were eligible to ship via express carrier. Other factors for choosing the CRS Engine Shop were related to manning considerations and minimizing disruption to customers. Personnel from the Combat Oriented Supply Organization (COSO) were temporarily assigned to CRS to support the test.

Working with HQ ACC and 1st Fighter Wing Maintenance, Supply and Transportation personnel, the Reengineering Team used the As Is process model as the starting point to develop the process changes required to implement Direct Ship. As a result, the Direct Ship To Be process model was developed and used by CRS Engine Shop personnel to test the new Direct Ship process.

Initially, the test plan called for installing a Cargo Movement Operations System (CMOS) terminal in the CRS Engine Shop. However, we discovered CMOS did not have the capability to produce multiple shipping manifests for the same carrier. As a result, a FedEx PowerShip terminal was installed in the CRS Engine Shop. It should be noted that this confined the test results to a single express carrier.

Minor CRS facility changes were made to provide a separate processing area with sufficient storage space to house the PowerShip terminal, an SBSS terminal, and appropriate packing material. Doing so required moving local area network and phone lines to the new area. Additionally, roller top tables were brought in to optimize the movement of packages. Boxes,

tape, bubble wrap, tape guns and other packing supplies were obtained from TMF to support the test.

FedEx trained CRS personnel in the use of PowerShip. Personnel from the Traffic Management Flight (TMF) trained CRS personnel on the requirements of shipping and provided updates on Transportation Account Codes (TAC) and packaging policies as needed. CRS personnel used the To Be Direct Ship process model to insure the test process was implemented as designed.

We hypothesized manpower savings would be realized by eliminating duplicate handling by TMF inspecting and repackaging paperwork and assets. We also hypothesized manpower savings would be realized by eliminating trips by CRS personnel to deliver express carrier-eligible packages to TMF.

To test these hypotheses, time and motion studies were performed to collect data and compare the before and after processes. The process for turning in assets from Maintenance to CRS remained unchanged; however, the CRS Engine Shop currently signs a Maintenance Log to verify receipt of the asset. When SATS is implemented at the 1st Fighter Wing, the practice of signing a log will no longer be necessary.

As Is Shipping

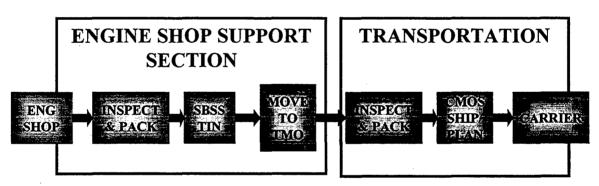


Figure 1 - As Is Shipping Process

4.1.1 As Is Shipping Process

The As Is shipping process begins when an asset is declared Not Reparable This Station (NRTS) by intermediate maintenance or is turned in as a Direct NRTS asset. The paperwork turned in with the asset to the Support Section includes the Due-In From Maintenance (DIFM) copy of the DD Form 1348-1, an AFTO Form 350 Tag, and any applicable Condition Tags.

The Supply technician inspects the asset and paperwork upon receipt. In some cases, the Maintenance technician may require the Supply technician to sign a logbook to show the asset has been turned in.

The Supply technician then processes a Turn-In (TIN) Transaction in the Standard Base Supply System (SBSS) which determines the appropriate repair location based on the SBSS-produced base repair capability assessment. If no local repair capability exists, the asset is processed for shipment to the selected repair location.

The Supply technician uses the SBSS to print the 6-part DD Form 1348-1 for the shipment. Copies 1 and 2 are placed inside the container with the asset. Copy 3 is placed on the outside of the container in a packing list envelope that the Supply technician attaches to the container. Copies 4, 5, and 6 are moved with the asset and Condition Tags to Base Transportation (TMF). The timing of the actual movement of the asset to TMF depends upon the priority of the shipment.

Processing the TIN Transaction automatically generates a Ship (SHP) Transaction when certain conditions are met. When the Ship Transaction is generated, it triggers two actions in SBSS:

- 1) An Advanced Shipment Notice (ASN) is sent from SBSS to the shipping base's Cargo Movement Operations System (CMOS) through an Interactive Communications Interface (ICI). This ASN is matched to the asset when it is brought to the Transportation function for shipment.
- 2) The local inventory is adjusted and, when necessitated by stockage policy, a stock order for replenishment is initiated.

When the asset is delivered to TMF, documentation is checked to insure the appropriate paperwork accompanies the asset. Copy 4 of the DD Form 1348-1 is retained in TMF's DD1348-1/DD1149 file. Copy 5 is attached to the commercial carrier's paperwork (FedEx keeps for 10 years) and Copy 6 is destroyed. If there is an error in the paperwork, Supply must correct the problem before the asset will be accepted by Transportation. Once the paperwork is correct, TMF evaluates whether or not a special container is required. If a special container is required and the asset is turned in without one, an AF Form 451, Request for Packaging Service, must be prepared by Supply before Transportation will accept the asset.

The Transportation portion of the NRTS process begins when the SBSS places the ASN in a suspense file. Once the asset and its container have been accepted by TMF, Transportation attempts to match the asset information to an ASN Transaction. If no ASN Transaction exists, the Transportation technician will manually enter the asset documentation into CMOS. If Transportation cannot resolve the discrepancy between an ASN Transaction and the asset information, the asset will be returned to Supply for problem resolution.

TMF inspects and repacks the asset in the container, and either processes a direct shipment or processes the asset for consolidated shipment. TMF determines the mode of transport (commercial carrier, military conveyance, or some combination of both) and arranges for the asset to be moved.

In the commercial express carrier process, the TMF shipment planner will open the transaction in CMOS and initiate booking. Express carriers have almost universally become participants in

the Industry Information Processor (I2P) program, so TMF can book shipments in CMOS and automatically update a carrier's information system. TMF then determines the correct funding for the transportation and prints a shipping label from CMOS. The shipping label is affixed to the container and the package is placed in the appropriate area to await carrier pick up. When the carrier arrives, TMF prints the manifest for that express carrier.

When the ASN Transaction and asset are matched and the shipment is booked for movement, a Shipment Suspense Card (SSC) Transaction is passed from CMOS to SBSS through ICI to show the Transportation Control Number (TCN), mode of shipment, and date shipped in SBSS. At the same time, CMOS will process an update to the Global Transportation Network (GTN) and the Advanced Traceability and Control - Air Force (ATAC-AF) systems.

To Be Direct Ship

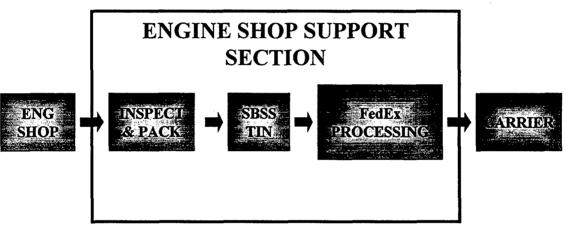


Figure 2 - To Be Direct Ship

4.1.2 To Be Direct Ship Process

The To Be Direct Ship process begins when an asset is declared Not Reparable This Station (NRTS) by intermediate maintenance or is turned in as a Direct NRTS asset. The paperwork turned in with the asset to the Support Section includes the DIFM copy of the DD Form 1348-1, an AFTO Form 350 Tag, and any applicable Condition Tags.

The technician inspects the asset and paperwork when the asset is received. In some cases, the Maintenance technician may require the Supply technician to sign a logbook to show the asset has been turned in. If the unit is equipped with SATS, the technician can scan the bar-coded DD Form 1348-1 into SATS. If the DD Form 1348-1 is not bar-coded, the technician can manually enter the data via the SATS keypad. If the unit is not SATS equipped, the technician will sign Maintenance's copy of the DD Form 1348-1 and/or a logbook kept by Maintenance to record asset turn-in.

At this point, the technician determines whether or not the asset is packaged in a suitable container. If not, the technician either repackages the asset in an available container or completes an AF Form 451 to request an appropriate container from Transportation. Transportation will assist the technician in obtaining the appropriate container.

When the paperwork is correct, and the asset is packaged in the proper container, the technician processes a Turn-In (TIN) Transaction in SBSS or SATS. The TIN also triggers SBSS inventory adjustments, and when required, stock replenishment activity.

Units equipped with SATS can now print the appropriate label and affix it to the asset.

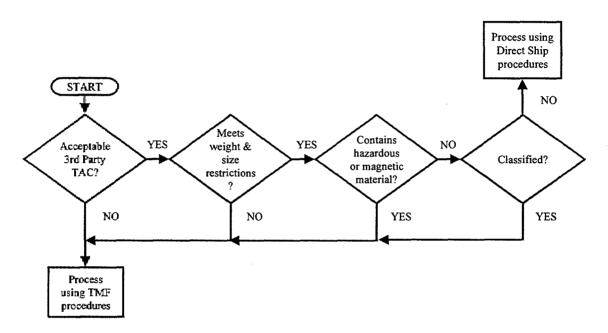


Figure 3- Express Carrier Eligibility Decision Tree

The technician then goes through a decision process to determine if the asset meets express carrier eligibility requirements (See Figure 3). Handling of items not express shipment eligible remains unchanged in the To Be Direct Ship process.

If the asset meets express carrier eligibility requirements, the technician will move the express carrier-eligible asset to the PowerShip Terminal where the asset is weighed and appropriate data is entered into PowerShip. PowerShip processes the shipment and prints the appropriate shipping labels. The technician affixes the shipping labels to the package and moves the asset to the carrier pickup area. The technician then inputs a Shipment Suspense Card (SSC) Transaction into SBSS to delete the Advance Shipping Notice (ASN) from the suspense file that will be sent to CMOS.

For non-SATS units, the technician prints three copies of the TIN image from SBSS, gives one copy to Maintenance to confirm receipt of the asset, sends one copy to document control, and retains one copy which will be destroyed after the retention period expiration date. The TIN

Transaction triggers the creation of the SHP Transaction, printing of the 6-part Ship (SHP) DD Form 1348-1 document, and passing of the SHP Transaction from SBSS, via the ICI, to CMOS. Copy 1 and Condition Tags are placed inside the container with the asset and the container is sealed for shipment. Copies 2 and 3 are placed on the outside of the container in a packing list envelope that the technician attaches to the container. Copy 4 is placed in the shop's files and will be destroyed after the retention period expires. Copies 5 and 6 are destroyed. When SATS is implemented, SATS's automated record keeping will eliminate the need for this "paper trail."

4.1.3 As Is versus To Be Direct Ship Comparison

The asset inspection process and the packing process at CRS remained unchanged.

Under the As Is process, after CRS packed and sealed the container, assets were placed in a holding area for consolidated movement to TMF. The number and timing of trips to TMF were driven by factors such as: shipment priority, consolidation with other trips, workload variances/opportunities, and TMF requirements. Under the As Is process, when assets arrived, TMF opened the sealed container, reinspected the asset and paperwork, and repackaged the asset as required. This part of the TMF process is eliminated by Direct Ship for express carrier-eligible shipments.

Due to several short-comings in the current CMOS program⁴, CMOS data entry for production of shipping labels and manifests was replaced by FedEx's PowerShip process during the CRS Engine Shop Direct Ship test. It should be noted that the use of PowerShip instead of CMOS eliminates the competitive carrier selection process. If CMOS were enhanced to include the capability of producing multiple manifests for the same carrier, competitive carrier selection at the shop level would be possible.

The elimination of transporting small, express carrier-eligible assets to TMF and shifting production of shipping labels and carrier manifests to the CRS Engine Shop are the two changes of greatest potential impact.

Analysis shows that moving the process to CRS did not significantly change the actual handson time spent processing a parcel for shipment. While this eliminated the need for TMF to verify paperwork and repackage assets, the time savings was offset by FedEx processing steps added to CRS's workload. Therefore, the only potentially significant time saving remaining was in the elimination of movement of the packages to TMF.

To measure this impact, we captured the pre- and post-test number of trips made by CRS personnel to take packages to TMF. Even after test implementation, the CRS Engine Shop was averaging two trips per day to move non-express carrier-eligible property to TMF⁶. While we

⁴ The TMF explained that CMOS required a stand-alone computer because the CMOS program crashed when loaded on any computer with other programs, such as Windows and Microsoft Office. However, the primary factor for not using CMOS for our Direct Ship test is that it can only produce one manifest per carrier for the

successfully eliminated trips on some days, non-express carrier-eligible package movement was still required on others, thus preventing the total elimination of trips to TMF on a consistent basis.

The Reengineering Proof-of-Concept (AFLMA Final Report LM9617100) and other Dyess Express documentation showed that a scheduled pickup and delivery service successfully reduced vehicle usage. Shaw's Transportation/Supply Merger also demonstrated time-definite delivery with on-call service (as required) could be very successful in reducing the total number of trips made by organizations. Analysis of the Pickup and Delivery Log used to track deliveries from P&D to the CRS Engine Shop showed an average of 2.63 delivery runs per day. This compared to 2.18 average daily trips from CRS to TMF to deliver non-express carrier-eligible cargo. Implementation of such a time-definite pickup and delivery service implemented in concert with Direct Ship procedures will allow full realization of the savings discussed below.

4.1.4 Cost/Benefit Analysis

With the Direct Ship initiative, there are two primary areas of potential savings. One is in reduced manpower, the other in reduced vehicle usage. These potential savings are derived from our test site at the CRS Engine Shop at Langley AFB.

In order to quantify these potential savings, we took time and motion measurements for the following processes:

- Packaging and FedEx Processing
- Package Movement to TMF

4.1.4.1 Packaging and FedEx Processing

The specific time and motion measurements we took to calculate potential manpower savings encompassed locating a box, packing an asset, processing the package in PowerShip, labeling the box. processing an SSC Transaction in SBSS and printing the FedEx manifest. These actions had been transferred from TMF to the CRS Engine Shop. We measured these processes at both **TMF** and CRS for comparison purposes. Our analysis showed the time it took the CRS Engine Shop to

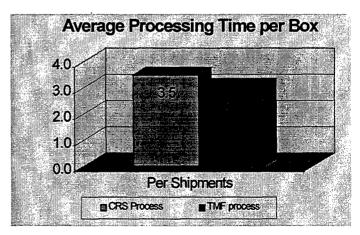


Figure 4 - CRS-TMF Processing Time Comparison

process an asset for shipping with PowerShip was not significantly different from the time it

⁵ Source Data: Appendix C-1, Tab E - Daily Delivery Analysis

took TMF to process an asset for shipping (packaging, labeling, etc.) with CMOS (Figure 4). Before the Direct Ship test, CRS had an average of two trips per day. During the test period CRS continued to have an average of two trips per day⁶ for oversized packages and/or small packages that did not fit the criteria for express shipping.

As Table 1 shows, during the test period CRS Engine Shop personnel processed an average of 14.6 express carrier-eligible packages per day⁷. The average time to process a single package was 3.5 minutes⁸, yielding an average increase in workload of 51 (51.1) minutes per day. Using the manpower standard of 20.99 average working days per month, CRS's monthly increase in workload was 17 hours 53 minutes per month. To determine the manpower impact, we divided the monthly increase in workload by the Air Force Man-hour Availability Factor of 151.5 hours per month, which resulted in a 12 percent of a manpower position increase. Because the CRS-TMF processing time comparison

Table 1 - Manpower Impact Computation

	14.6 packages per day
X	3.5 minutes
	51.1 minutes per day
X	20.99 days
	1073 minutes/month
÷	60 minutes/hour
	17.88 hours/month
÷	151.5 Man-hours Available
	0.118 Workload Increase

shows there is not a significant difference in the hands-on times spent processing these shipments, this 17.88 hours per month increase for CRS would be offset by a corresponding decrease in TMF processing times for the same packages.

Although the volume of small packages for CRS represents approximately 23 percent of TMF's outbound small package workload, this does not equate to a 23 percent reduction in TMF's manpower requirement. TMF's workload, after elimination of the parcels that would be shipped by CRS, is composed of parcels with more labor-intensive processing requirements, such as hazardous, classified, oversized, overweight, and other items with more complex packaging and transportation needs. Therefore, while the number of small parcels may have been reduced, the complexity of the remaining workload prevents a corresponding decrease in TMF manpower. The need to maintain TMF's specialized expertise to handle these more complex items remains essential, even with units using Direct Ship for express carrier-eligible packages.

4.1.4.2 Package Movement to TMF

Savings for package movement to TMF accrue in the vehicle Operations and Maintenance (O&M) costs (based on mileage reductions) and manpower savings (in terms of movement

⁶ Source Data: Appendix C-2, Analysis of Daily TMO Trips Post - Direct Ship

⁷ Source Data: Appendix C-3, Number of FedEx Shipments

⁸ Source Data: Appendix C-4, CRS-TMF Comparison. These measurements were taken fairly early in the test process. We believe over time, the CRS processing times will normalize to times similar to those observed in TMF (approximately 3.1 minutes per package).

⁹ Analysis of Transportation data shows the average workload for Langley AFB's small outbound parcels is 1,350 packages per month. CRS processes an average of 14.6 packages per day. Multiplied by 20.99 average work days per month, this yields 306 packages per month. Therefore 306 divided by 1,350 = 23% of TMO's average total monthly outbound small package workload.

time). We defined the movement time as the time to load the vehicle, drive to TMF, unload the vehicle, wait for TMF acceptance of the property, and return to CRS.

To compute the potential vehicle savings, we used the Consolidated Analysis and Reporting System (CARS) FY 1997 total cost per mile data for a B261, Stake Bed truck (the type used by CRS).

Trips from CRS to TMF are 3.6 miles round trip (see Table 2) and the unit makes approximately 2 trips per day, which equals 7.2 miles per day. Multiplying this by the Operations and Maintenance (O&M) cost for a B261 stake bed truck (\$0.23 per mile), we arrive at \$1.66 vehicle O&M cost per day.

Multiplying this cost per day by 20.99 average working days per month yields \$34.76 per month, or \$417.11 in Vehicle O&M cost per year for the

Table 2 - Vehicle O&M Calculations

	3.6 miles (round trip)
x	2 trips per day
	7.2 miles per day
x	\$0.23 O&M Cost per mile
]	\$1.66 O&M Cost per day
X	20.99 days/month
	\$34.76 Cost per month
X	12 Months/year
	\$417.11 O&M Cost per year

CRS Engine Shop. This cost would be eliminated if both trips per day were discontinued.

We also gathered time and motion data for the movement process of delivering property from CRS to TMF. This process required two people per trip.

Table 3 shows the computations for arriving at the daily manpower savings if the daily trips to TMO were eliminated. Two people require 1 hour 47 minutes movement time¹⁰. Multiplying the resulting 3.56 hours per day by 20.99 average working days per month yields 74 hours 43 minutes per month. Dividing this time by 151.5 hours per month, resulted in a 49% reduction of workload for one manpower position. Therefore, if both daily

trips to TMF are eliminated, CRS will gain approximately one-half person who would then be available to work higher priority mission workload at CRS.

Table 4 reflects the dollar savings from eliminating two trips to TMO. Multiplying the 74.72 hours per month by 12 produces an annual potential manhour saving of 896 hours 38

Table 3 - Per Day Manpower Savings

	1.78	hours per day
X	2	people per trip
		hours/day
X	20.99	Avail days per month
	74.72	hours/month
÷	151.5	Man-hours Available
	0.49	

Table 4 - Annual Savings Potential

	Calcula	ted Savings (E-5)
	74.72	hours saved per month
X	12	months per year
=	896.64	hours per year saved
X		hourly rate (E-5)
=	\$16,865.80	Annual savings

¹⁰ Source data: Appendix C-5, CRS-TMF Delivery Times Tab

minutes. Applying the E-5 pay rate¹¹ (Table 5), which is the average grade of CRS Engine

Shop Support Section personnel who perform this task, results in an annual labor savings of \$16,866 by eliminating the two trips per day.

Table 5 - E-5 Pay Rates

Military Pay Rates - E5		
Annual	\$39	9,119.00
Monthly	\$:	3,259.92
Weekly	\$	752.59
Daily	\$	150.46
Hourly	\$	18.81

Together, the annual Vehicle O&M savings plus the labor savings result in total savings for the CRS Engine Shop of \$17,283 per year. Since this savings only represents the CRS Engine Shop, which is 23 percent of Langley's Total Direct Ship Express Carrier Eligible Outbound packages, then Langley's potential Total Annual Savings

for direct shipping is \$75,143. HQ ACC characterizes its bases as Category 1 (Large Base) or Category 2 (Small Base). According to HQ ACC staff personnel, there are eight Category 1 bases and eight Category 2 bases. When Langley's Direct Ship savings (see Table 6) are multiplied by the 8 Category 1 bases and 2/3 of those savings are multiplied by the eight Category 2 bases, ACC's estimated potential Total Annual Direct Ship Savings is \$768,382¹³

4.1.5 Implementation Issues

Certain criteria should be considered before implementing Direct Ship. There needs to be a support section at the shipping location with sufficient manpower to handle the increased workload. Adequate facilities must be available to handle and process any packages to be shipped. facilities must include materiel handling equipment, LAN lines, SBSS lines, and appropriate holding A final consideration is space. whether there will be sufficient workload at the location to warrant it as an express carrier pickup location, since FedEx requires a minimum of 10 FedEx-eligible packages per day for each area using their PowerShip terminal.

CMOS's inability to produce multiple shipping manifests at a base for the same carrier limited test results to a single express carrier. The

Table 6 -ACC Total Potential Annual Direct Ship Savings

_				
	\$17,282.91	Annual CRS Engine Shop Savings for Direct Ship		
7	23	CRS has 23% of Langley's Total Direct Shipping		
=	\$751.43	Savings for Each Percent of Langley's Direct Ship		
X	77	Percent Direct Ship from All Others (100 - 23 = 77%)		
=	\$57,860.18	Potential Savings for All Others (77%)		
	\$75,143.09	Total Potential Annual Savings Across Langley (23% + 77%)		
		CATEGORY 1 BASES		
(L	angley, Davis	Monthan, Holloman, Shaw, Barksdale, Moody, Mt Home, and Nellis)		
	\$75,143.09	Langley's Potential Savings		
X	8	ACC has 8 Category 1 Bases like Langley		
	\$462,881.46	Total Potential Savings for All Category 1 Bases		
		CATEGORY 2 BASES		
(\$	Seymore John	son, Dyess, Minot, Whiteman, Cannon, Ellsworth, Offutt, and Beale)		
	\$75,143.09	Potential Savings of a Cat 1 Base		
Х	0.66	Category 2 Bases are approx. 2/3 size of Cat 1 Bases		
	\$49,594.44	Savings Potential of a Category 2 Base		
Х	8	ACC has 8 Category 2 Bases		
	\$305,501.76	Total Potential Savings for All Category 2 Bases		
	\$768,383.22	Total Potential Direct Ship Savings for ACC		
	· · · · · · · · · · · · · · · · · · ·			

Pay rates were extracted from AFI 65-503, Table A20-1, Military Pay Rates per Unit of Time - Air Force based on FY1999 President's Budget, dated 27 Feb 98.

¹² A Category 2 base is approximately 2/3 as large as a Category 1 base.

¹³ Source Data: Appendix C-6, Direct Ship Savings Computation

ramifications of limiting the work to a single carrier should be carefully weighed when considering Direct Ship implementation.

4.1.6 Other Observations

Benefits observed from implementing Direct Ship at Langley were limited due to the inability to completely eliminate daily trips to TMF. In order to realize the full potential savings of implementing Direct Ship at a unit, it is necessary to eliminate trips the unit makes to transport non-express carrier-eligible property to TMF. A scheduled pickup and delivery service could accomplish this goal. The use of a scheduled pickup and delivery service much like Dyess Express or that used in the Shaw Transportation/Supply Merger has been successfully demonstrated to produce savings from reduced vehicle use, elimination of unit vehicles, and manpower reductions.

We noted that CRS's workload could be characterized as variable with periods of high and low activity throughout the day. The 12 percent increased workload Direct Ship represents can be accomplished during periods of low activity as long as the workload has been processed before the FedEx pick-up scheduled for 1500 hours each day. Although it is difficult to quantify the benefit, this enables CRS an opportunity to smooth the fluctuations in their workload and focus on higher priority mission requirements as needed.

During the test, we also noticed that the CRS Engine Shop was manually producing an AF Form 2005. Automating the process was relatively simple and we did so at that time. Consequently, TINs are now printed on 3-part paper directly after data input to SBSS. This can yield an unanticipated benefit with savings in time¹⁴ as well as the added benefit of increased data accuracy.

The CRS Engine Shop currently signs a Maintenance Log to verify receipt of assets turned in from Maintenance. When SATS is implemented at the 1st Fighter Wing, the practice of signing a log will no longer be necessary.

Hand printing the 2005 form takes an average of 1.24 minutes. Automated printing takes 21.83 seconds to the time the data is submitted to the printer. If the CRS Engine Shop obtains a new, faster printer, the printing time will be only seconds and the automated process would save time. However, the old printer at CRS took and additional 93.8 seconds to print the TIN on the 3-part paper. The old printer has since been moved and technicians are forced to walk to a printer set up in an adjacent room to retrieve the printed TIN, resulting in minimal savings as of 1 Sep 98.

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SECTION 2 -- DIRECT RECEIPT

4.2 RECEIVING PROCESS

For the purpose of this study, we defined Direct Receipt as the process of receiving packages directly at base-level non-centralized warehouse locations.¹⁵

The Phase I report, "USAF Logistics Asset Sustainment As Is Process," identified Direct Receipt as a potential process improvement for eliminating unnecessary asset handling and data processing. HQ ACC agreed to work with the Reengineering Team to answer the questions: "Will Direct Receipt improve the base-level process," and, if so, "What are the benefits?"

HQ ACC's 1st Fighter Wing selected the CRS Engine Shop Support Section as the best (representative sample) site for testing Direct Receipt based on the percent of receipts processed. Other factors for choosing the CRS Engine Shop Support Section were related to manning considerations and minimizing disruption to customers.

Working with HQ ACC and 1st Fighter Wing Maintenance, Supply and Transportation personnel, the Reengineering Team used the As Is process model as a starting point to develop the process changes required to implement Direct Receipt. The ACC To Be Asset Sustainment Process Model includes SATS and non-SATS processes as well as the Shaw Transportation/Supply Merger concepts and the Dyess Express Pickup and Delivery concept.

To test the Direct Receipt concept, we needed to change the delivery address assigned to SBSS requisitioned assets. Use of the DD Form 1348-1 is "mandatory for all shipments to DOD customers, including FMS and contractors, from DOD and GSA shipping activities." This form requires a Department of Defense Activity Address Code (DODAAC) to specify both the delivery address and billing address for material ordered. While use of the DODAAC continues to be mandatory, the services will be limited to delivery addresses that have been loaded into the DODAAC directory. Since we were not trying to change the billing address, we requested and obtained a FY DODAAC for the CRS Engine Shop Support Section.

The next requirement involved facilitating the ordering process. Each National Stock Number (NSN) that the base uses is loaded into SBSS with a set warehouse location for inventory. Only one storage location can be loaded per NSN for each base. Therefore, we examined the NSNs that are stored in Warehouse 04, the CRS Engine Shop Support Section. There were over 750 NSNs loaded in SBSS at Langley AFB for storage in Warehouse 04.

¹⁵ The rationale for using this definition is discussed in Section 4.2.5.1

¹⁶ DOD 4000.25-1-M, Chapter 4, Chapter 5, Receipt & Release of Materiel, "A.1. The DOD Single Line Item Release/Receipt Document, DD Form 1348-1, or the Issue Release/Receipt Document, DD Form 1348-1A and the optional APL (Automated Packing List) are prepared by the supply/shipping activity. These documents are used for selecting, packing, shipping, and receiving materiel. They are also used as a record of receipt transaction and/or the data source for preparation of other documents. The DD Form 1348-1 or DD Form 1348-1A is mandatory and the APL is optional for all shipments to DOD customers, including FMS and contractors, from DOD and GSA shipping activities."

A Requisition Exception Code (REX) modifier had to be loaded for each NSN selected for direct delivery to CRS. This REX modifier overrides the delivery destination, and ALL requisitions for the NSN would be delivered to that location, regardless of requestor. (In other words, for our test case, if anyone else at Langley AFB ordered that NSN, the CRS Engine Shop Support Section would receive the part and subsequently have to deliver it {or arrange for its delivery} to the requestor.) To minimize the probability of this occurring, the list of NSNs currently stored in their location (Warehouse 04) was scrubbed to insure only single-user items were identified for REX modification.

As we were preparing to test Direct Receipt, HQ ACC decided to implement improvements identified under the Shaw Transportation/Supply Merger, which included using the Direct Receipt process. Rather than consuming resources collecting and analyzing data to substantiate a process already being implemented, we elected, with ACC concurrence, not to fully test the Direct Receipt portion of our original test objectives. However, we did ask that a test be conducted on one NSN to demonstrate that using the REX modifier to change the DODAAC delivery address from base supply to another location (CRS Engine Shop Support Section) worked.

During this test, an entry error loading the REX modifier caused the address change to be applied to all the NSNs maintained at Warehouse 04, rather than the one sample item. This unfortunate error did enable us to identify some considerations for loading the REX modifiers and made us aware of potential problems in the delivery cycle. For example, when items began arriving at the CRS Engine Shop Support Section, inbound property became co-mingled with outbound property. The result created some confusion and, in the case of one item, resulted in the asset being sent out and returned via Federal Express the same day. Our recommendations include requiring any organization selected to implement Direct Receipt insure they have a method of preventing the co-mingling of inbound and outbound property.

Overall, we were able to capture only a very small sample of data supporting the Direct Receipt process at the 1st Fighter Wing. Analysis of this data is included in this report. Additionally, test results from the Shaw Transportation/Supply Merger, the Dyess Express study, McConnell's Parts Movement Study, and SATS implementation are discussed in this report. These studies provide additional information that supports implementing the Direct Receipt process.

4.2.1 As Is Receiving Process¹⁷

The As Is Receiving process (Figure 5) begins when an SBSS-requisitioned asset is delivered from off-base to Central Receiving and in-checked by Base Transportation (TMF). TMF technicians inspect the package and paperwork. They either scan or manually collect the asset shipping information for input into CMOS, which in-turn sends receipt notification to GTN and

¹⁷ The As Is Process discussed here does not include SATS procedures since it had not been implemented at the time the model was developed.

ATAC-AF¹⁸. If package discrepancies exist, such as damaged, over, or short, special actions must be taken. If there are no package discrepancies, the package is turned over to Base Supply (Receiving Section). Once all the carrier's cargo has been in-checked, TMF personnel sign the carrier's bill of lading and keep copies of the Commercial Bill of Lading (CBL) or Government Bill of Lading (GBL) for validation purposes.

As Is Receipt

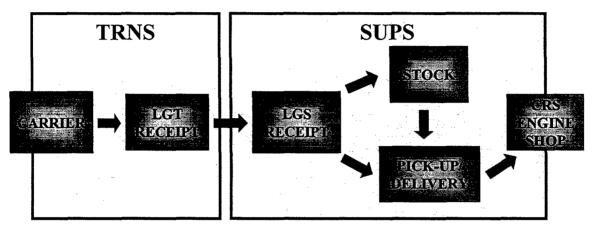


Figure 5 - As Is Receipt

Supply Receiving moves the asset to roller top tables for in-check, where the container, contents, and paperwork are inspected. If discrepancies exist, special actions must be taken. If no discrepancies exist, Supply inputs a receipt transaction for the asset (NSN) in the SBSS. The SBSS sends notification to the Source of Supply (SOS), clears the SOS Due-In Detail, and loads the appropriate information to the item stock record. The SBSS then searches for an existing Due-Out.

If a Due-Out does not exist, the SBSS generates a notice to stock and the asset(s) is placed in a temporary holding area for pickup by that NSN's warehouse personnel. Depending on the volume of receipts, each warehouse has routine pickup schedules for moving received property from Central Receiving to its warehouse storage location (e.g., one or more times a day).

If a Due-Out exists, the SBSS generates a Due-Out Release (DD Form 1348-1). The asset is placed in the Supply Pickup and Delivery holding area and, if the asset is a MICAP, the DD Form 1348-1 is date-time stamped. The Pickup and Delivery Section delivers packages based on priority. They load the package onto their delivery vehicle, move the package to its final destination, and return the proper documentation to the Supply Squadron. The customer receives the asset, signs the DD Form 1348-1, and retains one copy. The signed copy of the

¹⁸ The Dyess Proof-of-Concept report states on page 8, "ATAC-AF, which provides overall visibility of assets in transit, is programmed to automatically default to the SBSS D7 and D6 reports when CMOS data is not available for a shipment."

DD Form 1348-1 is taken to Supply Document Control. Copies 3 and 4 are used for DIFM tracking (if applicable). Remaining copies are destroyed.

To Be Direct Receipt

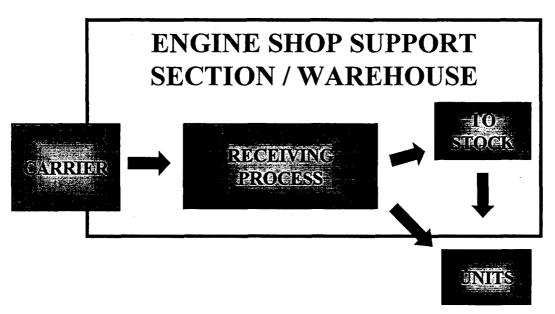


Figure 6 - To Be Direct Receipt

4.2.2 To Be Direct Receipt Process

The To Be Direct Receipt process (Figure 6) begins when the carrier delivers the asset directly to a designated receipt location (bypassing Central Receiving.) When the asset arrives, technicians inspect the package and either forward the data to TMF or input the asset shipping information into CMOS, which sends receipt notification to GTN and ATAC-AF. The asset and paperwork are then inspected. If discrepancies exist, special actions must be taken. If no discrepancies exist, the technician inputs (via SATS or manual entry) receipt of the asset into SBSS. The SBSS sends notification to the SOS, clears the SOS Due-In Detail, and loads the appropriate information to the item stock record. The SBSS then searches for an existing Due-Out.

If a Due-Out does not exist, the SBSS generates a notice to stock and the asset is moved to its storage location for future issue to a customer. If the Direct Receipt location is not the designated storage location, the asset will have to be moved to the final designated location.

If a Due-Out exists, the SBSS generates a Due-Out Release and the asset is taken to or picked up by the customer. For non-SATS units, the customer receives the asset and one copy of the DD Form 1348-1 which the customer signs. One copy of the DD Form 1348-1 is given to Supply Document Control. Copies 3 and 4 are used for DIFM tracking (if applicable) and

remaining copies are destroyed. With SATS, the customer will receive the property using SATS procedures. SATS procedures eliminate the need for the DD Form 1348-1.

4.2.3 As Is versus To Be Direct Receipt Comparison

With Direct Receipt, property bypasses Central Receiving and all of its associated processing, queue, and inter-warehouse transfer times. Some tasks (e.g., TMF in-check and receipt processing in SBSS) are moved to the new receipt location. Because the CRS Engine Shop Support Section already performs asset in-check duties, we eliminated the duplicative processing at Central Receiving.

In the Direct Receipt test, as designed for Langley AFB, the TMF duties of CMOS input and discrepancy resolution were to be transferred from the base TMF to the direct receiving location. CMOS data entry, or the process of transferring data to TMF, was an added task (training required) to the Support Section at the direct receiving location. Transportation discrepancy resolution also represented a workload increase to the Support Section.

In our test, the CRS Engine Shop Support Section, as the customer, had the added workload of processing SBSS data for the receipt. The asset acceptance process, as outlined and modeled in the As Is Process, remains unchanged in the To Be process model.

4.2.4 Cost/Benefit Analysis

With the Direct Receipt initiative, there are several primary areas of potential savings: reduced property receipt cycle time, elimination of repetitive tasks, and reduced vehicle usage.

In our Direct Receipt test, as we designed it, the customer became the warehouse closest to the "true" customer (the ordering entity). In the case of the CRS Engine Shop Support Section, the property was being delivered to the same building as the "true" customer. While some delay is still experienced in getting the property into the "true" customer's hands, it is far less than the delays experienced when the property was processed through a central receiving function.

The process of receiving an asset at Central Receiving can be broken into the following three segments:

- 1. The time for TMF to in-check the asset
- 2. The time for Supply to in-check the asset
- 3. Delivery time to the customer.

Figure 7 - Central Receiving Process shows the various segments in the receiving process as well as the total property receipt cycle time. Property receipt cycle time is defined as the time from carrier arrival to the time the customer's support section signs for delivery of the asset from P&D. There are queue times within each segment as well as queue times between

segments. To determine how much time is consumed, we attempted to measure the average time an asset spent in each segment.

CENTRAL RECEIVING PROCESS

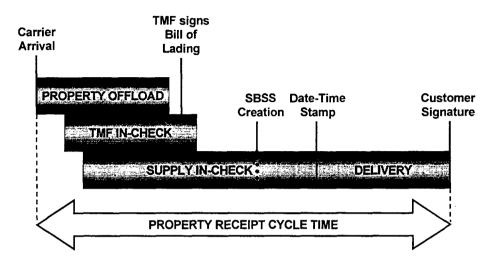


Figure 7 - Central Receiving Process

4.2.4.1 TMF In-Check

When a delivery truck arrives at the Central Receiving dock, Supply, Transportation, and/or the vehicle driver begins off-loading the vehicle. Usually wooden skids are moved to the door to facilitate moving the parcels once off-load is complete. As the property is off-loaded, TMF personnel verify the total package count and look for obvious container damage. Usually two Transportation personnel work the inbound property. One assists with off-loading, while the other begins CMOS in-check of the containers. Once the TMF person, who has been assisting with off-loading, completes verification of the package count and signs the carrier's manifest, he/she will assist the other TMF person in completing the CMOS in-check.

TMF in-check start time was defined as the time the delivery vehicle arrived at the Central Receiving dock. The process included the time to off-load the property, perform the appropriate in-check procedures, and turn the property over to Supply (stop time). Measuring this process proved difficult due to overlapping deliveries of multiple pieces of property to be in-checked by TMF. Often, Supply personnel do not wait for TMF to complete in-check of all the assets before beginning their own in-check process. As soon as TMF indicates they have in-checked an asset, Supply will move it and begin their in-check of that asset. Thus, while it may take TMF 20 minutes to in-check an entire truckload, the Supply in-check process has already begun. Even though a per piece sample of processing times can be taken, these times may be misleading as to the actual queue times of these packages, since they are batch processed.

We collected sample data using both manual and automated (HHT) CMOS in-check procedures. To insure we didn't overstate the case, we used the smaller number of the two in our calculation of total time to in-check an asset. Bear in mind that the benefits of Direct Receipt will be greater if TMF typically uses manual procedures versus automation. As can be seen by Table 7, CMOS in-check averaged less than half a minute per piece. On average, it took 10 minutes from the time the carrier arrived until the last piece was in-checked by TMF.

4.2.4.2 Supply In-Check

As stated earlier, Supply's segment of the incheck often took place concurrently with TMF in-check. Usually, as soon as TMF indicated

they were complete with a piece, Supply technicians moved the property to roller top tables and began opening the containers, verifying the contents, entering receipt transactions in SBSS (creation in SBSS), and printing DD Form 1348-1.

Using data collected in the P&D logbook²⁰, we analyzed the time from SBSS creation to movement of the property to the P&D holding area. Table 8 shows that the average time from SBSS creation to the time an asset was datetime stamped at the P&D section was about 9 minutes. Note that this ignores any Supply incheck processing time that occurred before the transaction was created in SBSS. shows that the average time for P&D (from date-time stamp) to deliver to the customer (customer signature) was approximately 21 minutes (Table 9). From this we can conclude that at least 30 minutes in Supply processing time can be eliminated from the customer wait times when we bypass Central Receiving.

Table 7 - CMOS HHT In-Check Times (with hand held terminal)

CMOS HHT In-Check Times	(In Seconds)
Mean	20.32
Standard Error	1.53
Median	16.73
Mode	#N/A
Standard Deviation	9.41
Sample Variance	88.54
Kurtosis	3.93
Skewness	1.97
Range	41.97
Minimum	12.06
Maximum	54.03
Sum	772.18
Count	38
Confidence Level(95.0%)	3.09

Table 8 - Descriptive Statistics SBSS Creation to P&D Time-Stamp

Time from SBSS Creation to P&D		
Mean	9.17	
Standard Error	0.40	
Median	7	
Mode	5	
Standard Deviation	8.03	
Sample Variance	64.44	
Kurtosis	8.65	
Skewness	2.55	
Range	56	
Minimum	1	
Maximum	57	
Sum	3694	
Count	403	
Confidence Level(95.0%)	0.79	

¹⁹ Source Data, Appendix C-7, HHT In-Check Times

²⁰ Source Data, Appendix C-1, Tab E -Daily Delivery Analysis

Time from P&D to	Customer
Mean	21.51
Standard Error	0.62
Median	20
Mode	19
Standard Deviation	12.39
Sample Variance	153.56
Kurtosis	0.25
Skewness	0.62
Range	67
Minimum	1
Maximum	68
Sum	8645.6
Count	402
Confidence Level(95.0%)	1.22

Table 9 - Descriptive Statistics P&D to Customer Times

Table 10 - Direct Receipt Processing
Times

CR	CRS Direct Receipt Samples			
Time	Items			
2.45	1 box			
2.97	1 pkg - 4 items			
6.15	1 pkg - 735 small items			
2.00	4 pkgs			
2.00	1 box			
2.00	1 box			
2.00	1 box			
2.80	AVERAGE			

Comparatively, our analysis of the limited data sample collected to support the Direct Receipt process at the 1st Fighter Wing showed it took an average of 2 minutes 48 seconds (Table 10) processing time per package. This processing time was for Supply in-check only and did not include any CMOS processing. Therefore, we see a reduction in the time from SBSS creation to Customer signature from 30 minutes in Central Receiving to less than 3 minutes for Direct Receipt.

For the total property receipt cycle time, we know the TMF segment averaged 10 minutes, while the segment from SBSS creation to customer signature averaged 30 minutes. This means an average of at least 40 minutes is consumed in the cycle without accounting for the Supply property in-check times. Assuming all the property described in the P&D logbook arrived at 0900 hours via express carrier, we concluded the earliest average delivery time to the customer was approximately one hour. Thus we concluded an average of 20 minutes was consumed in the supply in-check segment of the property receipt cycle.

4.2.4.3 Customer Delivery

Contractually, express carrier delivery trucks must arrive at Langley's TMF Central Receiving between 0900 and 1100 hours. During the test period, when the express carrier delivery truck arrived at TMF at 0900 hours, the CRS Engine Shop assets were processed and delivered to CRS within an average of one to four hours. Implementing Direct Receipt allows CRS to receive their express carrier-eligible assets on or about the same time of day the express carrier is contractually obligated to deliver those assets to TMF. As a result, CRS could receive these assets as early as 0900 hours. The only delay between receipt at the CRS Engine Shop Support Section and delivery to the customer will be the standard in-check processing time consumed when the item is delivered.

²¹ Source Data: Appendix C-1, Tab F - Early-Late Analysis

Under the Shaw AFB Transportation/Supply Merger initiative, inbound property was redirected from Central Receiving at the main Supply warehouse to both the Aircraft Parts Store (APS) and the Flight Service Center (FSC). Shaw reported that prior to redirecting receipts, the APS made two trips daily to the main Supply warehouse to pick up inbound property going to stock. This resulted in a 6.7 hour average put-away time (the time from when a receipt was processed and when it was put in its storage location). The FSC made only one trip per day, resulting in property often remaining at the main Supply warehouse overnight (averaging 20 hours). During the 12-week test at Shaw AFB, put-away times were reduced to an average of 1.04 hours in the APS and to 28 minutes for the FSC.

Improving put-away times does not in and of itself improve response time to the customer. Figure 8 - Langley AFB Receipt Data, illustrates the volume of receipts flowing through the various warehouses at Langley AFB. Currently, 64 percent of all receipts at Langley AFB are Due-Out Releases (DORs). The remaining receipts are Notices to Stock (NTS). Of these, the Main Supply Warehouse receives 17 percent and the Aircraft Parts Store receives 8 percent. The Jet Engine Warehouse (CRS Engine Shop) receives 5 percent.

As Inventory Reduction initiatives reduce the amount of property being kept in stock, more and more orders will become DORs. these DORs increase, the percent of property arriving to be delivered to the customer will also increase. so any reduction in the property receipt cycle time will improve customer response time. With Direct Receipt, as more and more receipts, including DORs, arrive at the warehouse/support section, the customer should see improved response times.

To calculate the potential annual savings from implementing Direct

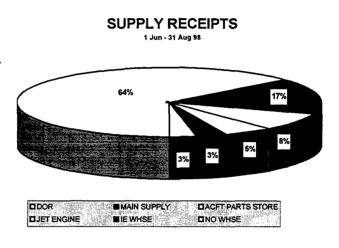


Figure 8 - Langley AFB Receipt Data

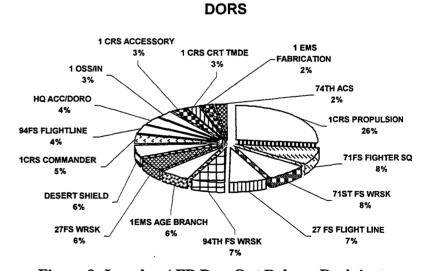


Figure 9- Langley AFB Due-Out Release Recipients

Receipt at Langley AFB, we added the total time it took one person from the P&D section to deliver property to the CRS Engine Shop Support Section (20 minutes). We did not include the time spent with the customer to receipt for the property. From our analysis of the P&D

Logbook (Table 12), we determined that P&D made an average of 2.6 trips per day to the CRS Engine Shop. Multiplying this by the time per trip, we arrive at a total of 52 minutes per day for one person in P&D to deliver parts to CRS. Using the standard manpower computations results in a total of 218.3 hours per year to perform this function. When this is multiplied by the E-5 Hourly pay rate, we arrive at a total annual savings from implementing Direct Receipt in the CRS Engine Shop of \$4,106.15.

Analysis of DORs for Langley during the period of 1 June - 31 August 1998 shows that the CRS Propulsion shop received a total of 21 percent of the DORs. Using this as a baseline, we can state that other organizations must then account for the remaining 79 percent of DORS. implementing Direct Receipt at the CRS Engine shop as 21 percent of the receipts saves \$4,106.15 annually, implementing Direct Receipt for the remaining organizations would save an additional \$15,446.95, yielding a total annual savings of \$19,553.10 at Langlev AFB. Langley is one of eight Category 1 bases, which would mean if all eight implemented Direct Receipt, potential savings of \$156.424.76 could be realized. Adding the eight Category 2 bases, which are 2/3 the size of a Category 1 base, would increase the annual savings potential by \$103,240.34. The total potential annual savings from implementing Direct Receipt across all bases in ACC are \$259,665.

4.2.4.4 Other Benefits

The benefits of bypassing TMF are not limited to reduced property receipt cycle time. Manpower is reduced, since the in-

Table 12 - Annual Savings from Direct Receipt

+	3.5	minutes	Avg P&D Load Time
+	13	minutes	Avg Round Trip to CRS
+	3.5	minutes	Avg P&D Unload Time
;	20	Total Min	Total Time for One Person to Make One Round Trip Delivery
Χ	2.6	Trips/ Day	mane one reading risp bolitory
:	52	Total Minut One Perso	es per day for Deliveries to CRS
1	60	Minutes in	•
;	0.87	Hours Per	Day
Χ	20.99	Days Per M	l onth
;	18.19	= Hours Per I	Month
Χ	12	Months Per	r Year
•	218.30	Hours Per	Year
X	\$18.81	E-5 Hourly	Pay Rate
•	\$4,106.15	⁼ Total Annເ	al Savings for Direct Receipt

Table 11 - Total ACC Potential Direct Receipt Annual Savings

_		
	\$4,106.15	Annual CRS Engine Shop Savings for Direct Receipt
/	21	CRS has 21% of Langley's Total DORs
=	\$195.53	Savings for Each Percent of Langley's DORs
Х	79	Percent Direct Ship from All Others (100 - 21 = 79%)
11	\$15,446.95	Potential Savings for All Others (79%)
	\$19,553.10	Total Potential Annual Savings Across Langley (21% + 79%)
		CATEGORY 1 BASES
(1	angley, Davis	Monthan, Holloman, Shaw, Barksdale, Moody, Mt Home, and Nellis)
	\$19,553.10	Langley's Potential Total Direct Receipt Savings
Х	8	ACC has 8 Category 1 Bases like Langley
	\$156,424.76	Total Potential Savings for All Category 1 Bases
: 173.7 23.673.8		CATEGORY 2 BASES
(3	Seymore Johns	son, Dyess, Minot, Whiteman, Cannon, Ellsworth, Offutt, and Beale)
	\$19,553.10	Potential Savings of a Category 1 Base
Х	0.66	Category 2 Bases are approx. 2/3 size of Category 1 Bases
	\$12,905.04	Savings Potential of a Category 2 Base
Х	8	ACC has 8 Category 2 Bases
	\$103,240.34	Total Potential Savings for All Category 2 Bases
	\$259,665.10	Total Potential Direct Receipt Savings for ACC

check process is performed once only (by CRS), and assets are loaded and unloaded only one time.

Our general observations and conclusions are reinforced by several conclusions delineated in the Shaw Transportation/Supply Merger. Briefly recapitulated, the Shaw Transportation/Supply Merger reached the following conclusions:

- 1) Direct delivery of property to the F-16 APS and FSC drastically reduced property receipt cycle time.
- 2) Moving Supply's P&D function to Transportation Vehicle Operations and developing delivery schedules for routine cargo resulted in significant reductions in vehicle O&M costs, vehicle resources, and manpower requirements.
- 3) Property receipt cycle time can be reduced and manpower requirements decreased through application of available technologies. Specifically, the SATS and CMOS interface, once developed and made available, will offer significant opportunities for resource reduction.

Additionally, benefits and conclusions delineated in the McConnell AFB Parts Movement Study, the SATS Technical and Functional Economic Analysis Reports, and the Reengineering Proof-of-Concept conducted at Dyess AFB add weight to our recommendations for implementing Direct Receipt.

4.2.5 Implementation Issues

4.2.5.1 Definition of Direct Receipt

During the Phase I study, many areas in the base-level receiving process were identified as potential candidates for improvement. The idea of delivering assets directly into the customers' hands, thereby totally bypassing the central receiving function and its associated delays, looked promising. However, there are several difficulties that impede implementation of this concept of Direct Receipt.

While the capability exists to deliver non-SBSS requisitioned items directly into the customers' hands (such as IMPAC card purchases), SBSS-requisitioned items present special challenges. Among these are: complying with data entry requirements for receiving materiel, limitations imposed by the existing data systems in terms of asset management, and financial constraints. We concluded that until data systems and processes are developed to overcome these impediments, the concept of delivering SBSS-requisitioned assets <u>directly</u> into the customers' hands couldn't be implemented. Therefore, the compromise definition of Direct Receipt used in this report is to deliver assets into the hands of the warehouse closest to the customer. Once data system improvements are made to remove the impediments to deliver directly to the ordering entity, implementing organizations should be able to realize further gains.

4.2.5.2 Determining Methodology

Any attempt to bypass Central Receiving requires insuring accomplishment of data system entry requirements currently in effect ²². Therefore, moving the point of receipt to the customer requires making arrangements to accomplish requisite data entry. We concluded there are two possible methods to do this: move the data to the point of data input ²³, or move the point of data input to the asset's location. With the second method, permutations can be made for moving the people with the terminals to perform data entry and/or training the personnel at the terminal's new location to perform that function²⁴.

Currently, CMOS must be used on a stand-alone, DOS-based, personal computer (PC). It cannot be run concurrently with any other system, such as SBSS, on the same PC. Therefore, every location selected for direct customer receipt will require a separate PC and communications link for a CMOS terminal. While it is certainly possible to do this, the equipment investment cost of communications connectivity and stand-alone terminals has to be multiplied for each location selected, and can quickly become prohibitive. In this case, economies of scale may be gained by keeping the process centralized.

Conceptually, Direct Receipt could apply to any asset, regardless of size or special handling requirements. However, there are some considerations that should be evaluated before implementing Direct Receipt. These considerations are addressed below.

The receiving location selected should be a designated SBSS warehouse with sufficient manpower to handle the increased workload. For example, the scope of the Shaw effort was restricted to high-volume operations such as the Aircraft Parts Store and the Flight Service Center.

Adequate facilities must be available to handle and process any packages to be received. The facilities must include suitable materiel handling equipment, LAN lines, SBSS lines, and sufficient holding space. Also, Direct Receipt implementation should be considered only at locations that are in close proximity to the requisitioning organization.

Direct Receipt REX modifiers should be applied only to NSNs that are used by a single customer, or to NSNs that are normally picked up by the requisitioning organization(s). Additionally, Direct Receipt REX modifiers should be applied only to NSNs that have the physical characteristics (size, weight, hazardous material, etc.) that the receiving location can handle.

²³ The McConnell AFB, Kansas, Parts Movement Study reported changing the process by faxing the receipt data to TMO. This shows data can be collected and moved electronically or manually to the point of data entry without having to move terminals or people.

We did examine the possibility of eliminating data entry into CMOS. In particular, we questioned those cases where TMF personnel were creating new records in CMOS solely to have a record that could be matched with the CMOS receipt data. (This problem is caused by DLA systems that currently do not populate CMOS with a shipping record which the receipt transaction closes out.) We refer to this lack of communications between systems as an "air gap." While data entry into CMOS appears of little added value today due to these "air gaps,"we concluded that system improvements coming on line will reduce the number of these "air gaps," ergo data entry should not be abandoned. Also, unless billing functionality is moved to another system, data entry into CMOS will be required to maintain transportation billing integrity.

The Shaw AFB Transportation/Supply Merger moved CMOS terminals and transportation personnel to the new point of receipt. Additionally, they trained Supply technicians to perform CMOS data entry tasks.

4.2.6 Other Observations

The potential exists to change existing data system(s) to allow data entry via either an existing system terminal or a new system's input device. As SATS is fielded, we recommend modifying its software (and/or the SBSS replacement software) to accept transportation data so it can be passed to the transportation system.

Currently, receipt data must be entered into both CMOS and SBSS. Various methods to accomplish data entry into these systems exist. At Langley AFB, for example, shipping receipt information can be hand-written on an ACC Form 41 and keyed into CMOS at a later time; or the CMOS hand-held terminal (HHT) can be used to scan or key data to be downloaded from the HHT into CMOS. With SATS at Shaw AFB, SBSS data entry can be done by keying the data into the SBSS terminal, or the SATS HHT can be used to scan the pertinent information into the system for radio frequency (RF) transmission. This transmission will update SBSS or be held for subsequent update via download of the HHT. (Note: Langley AFB is scheduled for SATS installation in late FY98, adding this capability to 1FW organizations.) Neither SATS improvements nor CMOS updates are currently in progress to allow one system or the other to accept the data from a HHT and pass it to the other system to update appropriate data elements. This "air gap" between SATS and CMOS prevents deletion of at least one step in the process and necessitates more than one person to accept the property from the carrier. Merging the data collection requirements and developing a link between these two systems could eliminate the need for separate terminals at each customer's location. The cost of developing a link between SATS and CMOS would most likely be equal to or less than the costs of purchasing additional computer equipment. Creating the link could be accomplished by modifying CMOS, SATS, and/or SBSS system programs. However, modifying legacy system programming codes has proven to be a lengthy, resource consumptive process. Until such time as the system modifications are made to these legacy systems, we believe Wrapper technology could be used as an interim measure to achieve the same functionality and allow savings to be experienced sooner.

As it stands today, the use of CMOS is technologically limited. CMOS must be used on a stand-alone, DOS-based, personal computer (PC). It cannot be run concurrently with any other system, such as SBSS, on the same PC. Therefore, every location selected for direct customer receipt will require a separate PC, scales for weighing packages, and a communications link for a CMOS terminal. While it is certainly possible to do this, the equipment investment cost of communications connectivity and stand-alone terminals has to be multiplied for each location selected, and can quickly become prohibitive.

CMOS should be enhanced or replaced by a more efficient system to address/resolve the following:

- 1) Allow production of a Bill of Lading per unit (shop) rather than one per base.
- 2) Allow communications with SATS and other systems such as SBSS and the Defense Logistics Agency's (DLA's) Distribution Standard System (DSS).

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SECTION 3 -- D035 TO SBSS WRAPPER

4.3 MICAP REQUISITIONING PROCESS

As Is MICAP Process

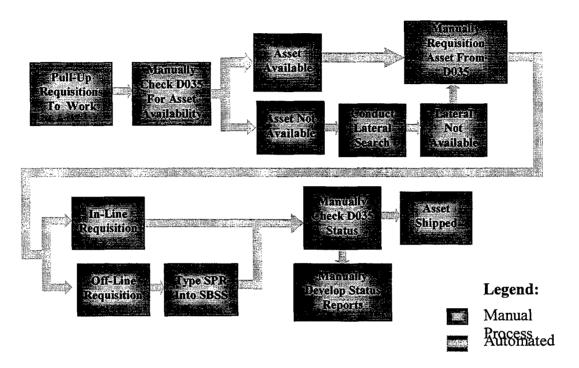


Figure 10 - As Is MICAP Process

4.3.1 As Is MICAP Process

The MICAP Section is responsible for special fast-track handling of all high priority aircraft asset requisitions, commonly referred to as MICAPs. Current MICAP Section procedures (see Figure 10) can be broken into seven distinct processes:

- 1) Log-On to SBSS/MASS and Pull Up Requisitions to be Worked
- 2) Check D035 for Asset Availability
- 3) Requisition Asset from D035
- 4) Generate a Special Requisition (SPR) to SBSS
- 5) Check D035 Requisition Status
- 6) Check DLA Shipping Status
- 7) Status Reporting

The current As Is method for accomplishing these seven steps is outlined below.

4.3.1.1 Log-On SBSS/MASS and Pull Up Requisitions to be Worked

The MICAP process begins when the MICAP technician logs into the MICAP Asset Sourcing System (MASS) and pulls up all the pending requisitions to be worked, sorts those requisitions, and prints the MICAP Status Report. The MICAP Status report is a list of requisitions which is commonly referred to as the MICAP board. The MICAP technician reads through the items listed on the board to find requisitions for which the bases have requested help.

4.3.1.2 Check D035 for Asset Availability

MICAP technicians contact the Depot to check asset availability in D035. They do this by telephone connection to the Defense Supply Expert System (DESEX). Connecting to DESEX and responding to automated prompts enables the MICAP technician to determine whether or not there is a serviceable balance in the Depot Inventory Management System (D035). Using DESEX to obtain asset availability requires 33 keystrokes. The technician can also log onto D035 to obtain asset availability using the Telnet system. Accessing Telnet requires 39 keystrokes.

4.3.1.3 Requisition Asset from D035

If the asset is available in D035, the MICAP technician can work the requisition through DESEX by entering two more keystrokes to reach the DESEX Depot Customer Service Operator. If it is an off-line requisition²⁵, the MICAP technician tells the DESEX Depot Customer Service Operator all the information needed to enter the new requisition in D035. The DESEX Depot Customer Service Operator keys the new requisition (all 80 characters of data) into the Item Manager Wholesale Requisition System (D035A). Requisitioning an asset through DESEX requires an additional 82 keystrokes.

If an asset is not available in D035, the MICAP technician attempts to source the asset from other bases (lateral). If the lateral search is successful and the item had already been backordered (BB) in D035, the MICAP technician must call the DESEX Depot Customer Service Operator to cancel the backorder in D035.

If the asset can not be found laterally and had not been ordered from D035, the MICAP technician must again telephone the DESEX Depot Customer Service Operator (10 keystrokes) to process a new requisition. The MICAP technician tells the DESEX Depot Customer Service Operator all information required for the new requisition and the DESEX Depot Customer Service Operator keys that 80 characters of data into D035A. Processing a new requisition through DESEX requires 90 keystrokes in addition to the keystroke requirement of paragraph 4.3.1.1 above.

4.3.1.4 Generate a Special Requisition (SPR) to SBSS

If the MICAP technician has been successful in establishing a new requisition in D035 (that is not yet in SBSS), the MICAP technician keys in a Special Requisition (SPR) into the SBSS.

²⁵ An off-line requisition is one that does not exist in SBSS.

The SPR notifies SBSS that a requisition was made, and creates a Due-Out requisition to match with the Due-In requisition in D035. Generating a SPR requires 68 keystrokes.

4.3.1.5 Check D035 Requisition Status

MICAP technicians periodically contact the depot to obtain status on all open requisitions. There are three ways a MICAP technician can check D035 status on open requisitions:

- 1) Status can be obtained through DESEX (28 keystrokes)
- 2) Status can be obtained by logging onto the Telnet system (38 keystrokes)
- 3) Status can be obtained by calling the Item Manager (9 keystrokes). However, Item Manager phone lines are frequently busy and can involve calling several times before finally getting through.

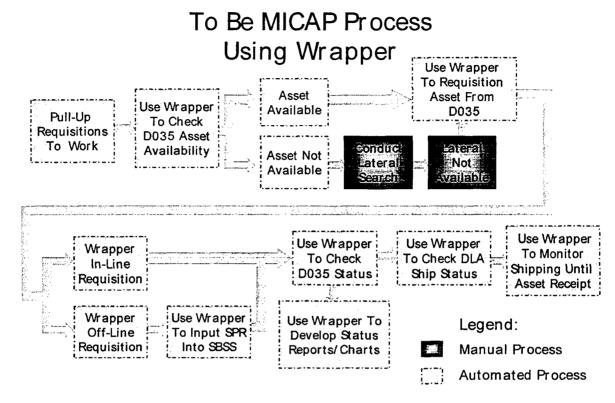
4.3.1.6 Check DLA Shipping Status

MICAP technicians have the capability to check the status of assets released for shipment by connecting to the DLA's World Wide Web site. Connecting to this web site requires 17 keystrokes; however, the MICAP technicians seldom access this source. Instead, they use DESEX, Telnet, or call the Item Manager directly, as outlined in paragraph 4.3.1.5 above.

4.3.1.7 Manual Status Reporting

Currently, MICAP technicians must answer daily phone calls and respond to questions from the wings regarding asset status. In addition, they periodically provide data and briefings to the wings and HQ ACC staffs. This is currently a very labor-intensive process and can result in conflicting data, depending on the person collecting the data and how that data is presented.

Figure 11 - To Be MICAP Process



4.3.2 To Be MICAP Process Using SBSS to D035 Wrapper

The term "wrapper" is used to denote a computer software application written using Commercial Off the Shelf (COTS) software to bridge the gap between existing legacy systems and provide easy access to data and information in a user-friendly Windows environment. The wrapper solution is only an interim solution intended to fill the interval between legacy system replacement or enhancement. One disadvantage of wrappers is that the wrapper application will be disabled if any change is made to the legacy system after the wrapper application is implemented. This can be easily anticipated and prevented with good communication between the wrapper user and the legacy system design center. The major advantage of using wrapper technology is it provides near real-time information to managers. Developing a wrapper application can be done quickly at a relativity low cost.

This To Be MICAP process utilizes a wrapper application to connect the legacy systems SBSS/MASS and D035A. The wrapper allows the sharing of information between the legacy systems, while presenting it to the user in an easy-to-use Windows format. User Instructions for the SBSS to D035 Wrapper can be found in Appendix E.

The seven MICAP To Be processes involved in handling high priority aircraft asset requisitions can be accomplished with the SBSS to D035 Wrapper application, as illustrated in Figure Figure 11 and outlined below.

4.3.2.1 Log-On SBSS/MASS and Pull-Up Requisitions to be Worked

The To Be MICAP process begins when the MICAP technician logs-on to SBSS/MASS through the Wrapper application.

At the wrapper's main menu, "Request Form" (Figure 12), the MICAP technician clicks on the "Get Tex 7/Tex M" button then checks locations to bring in requisitions for review. The **MICAP** technician can scroll through the list and view comments, etc. to find requisitions for which the bases have help and/or requested requisitions that require monitoring.

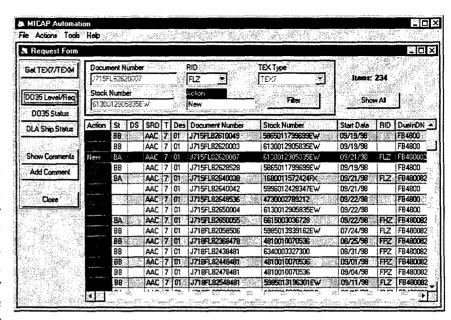


Figure 12 - Request Form

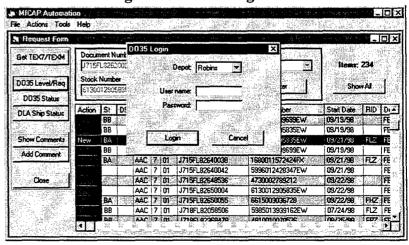
4.3.2.2 Check D035 for Asset Availability

To access and bring up the D035 balance for the asset being requisitioned, the MICAP technician highlights any requisition on the "Request Form" clicks on the "D035 Level/Requisition" button, and then clicks on the "Login" button (see Figure 13). The D035 login requires MICAP technicians to type in their User Names and D035 Passwords only the first time they log on that day. Using the wrapper to access asset availability requires three keystrokes (excluding the initial login to D035).

4.3.2.3 Requisition Asset from D035

When the MICAP technician clicks on the "D035 Level/Requisition" button, the "Stock Level" Screen appears and shows what assets are onhand at the depot. The MICAP technician can highlight any asset and click on the "Request" button to reach the "D035 Item Request Form" screen. At that point, the MICAP technician can click on the "Request Item" button to

Figure 13 - D035 Login Form



requisition an asset from D035. Using the wrapper to requisition an asset requires an additional three keystrokes. The MICAP technician can use this wrapper application to requisition an asset whether or not it is available in D035. If the asset is not available, it will create a backorder in D035.

4.3.2.4 Generate a Special Requisition (SPR) to SBSS

When the MICAP technician requisitions the asset from D035, the wrapper application will automatically load the requisition number created by SBSS. If no requisition number was previously generated by SBSS, the wrapper application will automatically generate an off-line requisition number and submit a SPR to SBSS. After the MICAP technician generates a requisition for an asset through the "D035 Item Request Form" screen, the "SBSS Request" screen appears. This screen shows any off-line requisitions (those with numbers of 9000 or greater). At that point, the MICAP technician clicks on the "Submit" button. Submitting the SPR Transaction to SBSS requires one additional keystroke.

4.3.2.5 Check D035 Requisition Status

To obtain status on all open requisitions, the MICAP technician highlights the requisition, clicks on the "D035 Status" button, and then clicks on the "Login" button. Using the wrapper to check status requires three keystrokes. (MICAP technicians type in their user names and passwords only once a day when they log onto D035.)

4.3.2.6 Check DLA Shipping Status

The MICAP technician can obtain Distribution Standard System (DSS) status updates for any

requisition by highlighting the requisition and clicking on the "DLA Ship Status" button at the wrapper's main menu "Request Form". This To Be Wrapper application provides automated access to DLA's web site (Figure 14) for specific carrier tracking numbers delivery dates. Using the wrapper to check shipping status requires two keystrokes.

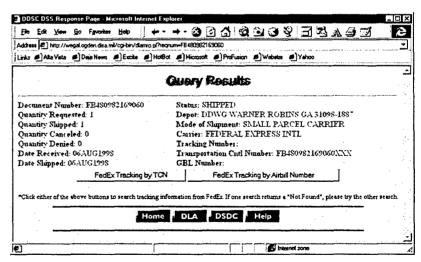


Figure 14 - Querying the DSS Requisition Tracking web site

4.3.2.7 Automated Status Reporting

The SBSS to D035 Wrapper application can produce charts and graphs of requisition and status data. The MICAP technician can display requisition status data from the wrapper's main menu

"Request Form" by clicking on the appropriate column to sort and display the data, then clicking on "Tools" from the menu bar and then clicking on the appropriate graph icon. Using the wrapper to produce automated reports requires three keystrokes.

The wrapper application also provides the capability to automatically print, e-mail, or export requisition status data in various formats such as Excel, PowerPoint, or as text files. From the wrapper's main menu, the MICAP technician can click on "File" (at the menu bar) then click on "Print." When the Print Report Menu appears, the MICAP technician can click on the "Preview" button and then click on the applicable button at the bottom of the window to either print, e-mail, or export the file. Any of these options can be performed with four keystrokes.

4.3.3 As Is versus To Be Comparison

The SBSS to D035 Wrapper automates all seven key MICAP processes outlined under paragraph 4.3.1, As Is Process. Note however, the process of conducting a lateral requisition (locating and requisitioning an asset from another base versus from a depot) was not included in this wrapper application. It can be included in a future update if needed, but at the time of this wrapper application development, it was felt automating this process could conflict with EXPRESS's

prioritization and distribution of assets.

In all the following comparisons between the current As MICAP processes and the To Be Wrapper processes, data certain processes were intentionally omitted from the spreadsheet totals.²⁶ For instance, whenever a specific process (e.g., Check D035 Asset Availability and Check D035 Requisition Status) had more than method for one accomplishing it, both methods were shown for comparison However, purposes.

Process	As is # Key Strokes	To Be # Key Strokes	Key Strokes DIFF	To Be Percent Improved
Log-On to SBSS/MASS	Same	Same	0	0
Pull-up Requisitions	Same	Same	0	0
Check D035 Asset Availability- Through				
Automated DESEX	33	3	30	91%
Check D035 Asset Availability Status-				
Through Telnet *	39	3	36	92%
Requisition in D035- If still in Automated				
DESEX Phone Call	82	. 3	79	96%
Requisition in D035- Call Automated				
DESEX Phone System *	90	3	87	97%
Generate a SPR to SBSS	68	1	67	99%
Check D035 Requisition Status- Through				
Automated DESEX	28	3	25	89%
Check D035 Requisition Status- Call Item				
Manager Directly using DSN ***	9	3	6	67%
Check D035 Requisition Status- Through				
Telnet *	38	3	35	92%
Check DLA Shipping Status	17	2	15	88%
Produce PowerPoint Charts of Requisition				
& Status Data **	Not Available	3	No Compare	No Compare
Print, E-Mail, or Export to File Data in				
Various Formats,e.g., Excel, PowerPoint,				
Text **	Not Available	4	No Compare	No Compare
TOTAL	228	12	216	95%

^{*} All Column Totals exclude these rows since an alternate method with less key strokes is also presented in the table and already included in the totals

Figure 15 - Current and Future Keystroke Comparison

only one method was included in the totals. This way, the totals represent the total sum of the keystrokes it takes to accomplish all the key processes of a MICAP Section (see Figure 15).

^{**} All Column Totals exclude these rows since there is no current As Is comparison

^{***} All Column Totals exclude this row since after checking status by automated sources, calling IM is still the last source

²⁶ Source Data: Appendix C-8, Tab B - AsIs vs ToBe Process

"Check D035 Status - Call Item Manager Directly using DSN" was excluded from the totals. After a MICAP Technician has used all the automated methods of obtaining system requisition status information but more information is still needed, the Item Manager remains the final source for obtaining asset status (even when using the wrapper). By excluding the data for this method, the totals represent a conservative comparison of the As Is process to the To Be Wrapper process.

The wrapper also other automates two processes normally not performed on a daily basis by a MICAP technician. One of these is providing customers with DLA Shipping Status. This could be done manually with a web browser but would require 15 more keystrokes for each request. Using the automated wrapper eliminates manual process and yields an 88 percent saving. The second process normally performed on a daily basis is producing reports and graphs requisition and status data for management decision making. Under the As Is process, this is laborintensive and produces various results. However. with the To Be Wrapper process, the data is always collected the same way and can be accomplished with only 3 keystrokes.

Table 13 - Wrapper Time Comparison

Table		ipper 1 im			
Process	As Is Execute Time (Sec)	To Be Execute Time (Sec)	Time DIFF (Sec)	To Be - Percent Improved	Time Saved/Day (Sec)
Log-On to SBSS/MASS	Same	Same	0	0	0
Pull-up Requisitions	Same	Same	0	0	0
Check D035 Asset Availability-Through Automated DESEX	41	3	38	93%	1976
Check D035 Asset Availability Status- Through Telnet *	43	3	40	93%	18152
Requisition in D035- If still in Automated DESEX Phone Call	180	5	175	97%	9100
Requisition in D035-Call Automated DESEX Phone System *	300	5	295	98%	15340
Generate a SPR to SBSS	35	1	34	97%	1768
Check D035 Requisition Status- Through Automated DESEX	40	3	37	93%	14867
Check D035 Requisition Status- Call Item Manager Directly using DSN ***	237	3	234	99%	94021
Check D035 Requisition Status- Through Telnet *	43	3	40	93%	16072
Check DLA Shipping Status	55	2	53	96%	21295
TOTAL	351	14	337	96%	49006

^{*} All Column Totals exclude these rows since an alternate method with less key strokes is also presented in the table and already included in the totals

Table 13 - Wrapper Time Comparison contains a process-by-process comparison of the As Is MICAP process to the SBSS to D035 Wrapper process.²⁷ There is no measurable difference in the process of initially logging onto SBSS/MASS and pulling up the requisitions to be worked. However, all other processes the MICAP technicians perform numerous times a day are significantly different.

^{***} All Column Totals exclude this row since after checking status by automated sources, calling IM is still the last source

²⁷ Source Data: Appendix C-9

The smallest saving achieved by using the wrapper is for "Checking D035 Requisition Statusby Calling the Item Manager" which is a keystroke reduction of 67 percent. As previously mentioned, the wrapper will not totally replace telephone calls from the MICAP technician to the Item Manager, but it can significantly reduce the number of those calls by providing updated information directly from D035A. The largest reduction of keystrokes is 99 percent to "Generate a Special Requisition (SPR) to SBSS."

These comparisons show how enhancements to seemingly insignificant processes that must be performed numerous times a day have a significant impact on workload. Overall the SBSS to D035 Wrapper reduces keystrokes for the MICAP technician by 95 percent.

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Current & Future MICAP Wrapper Time & Dollar Savings

	Δε ίε	To Be			As of 30 Sep 1998			As of 31 Dec 1999		
	Execute	Execute	Time	To Be	Approx.	As of 30 Sep	As of 30 Sep 1998	Approx. Time	As of 31 Dec	As of 31 Dec
	Time	Time	H	Percent	Saved/Day	Approx.\$	Approx.\$	Saved/Day		1999 Approx. \$
Process	(Sec)	(Sec)	(Sec)	Improved	(Sec)	Saved ****	Saved ****	(Sec)	\$ Saved	Saved ****
						Per Day	Per Year		Per Day	Per Year
Log-On to SBSS/MASS	Same	Same	o	0	ρ	0\$	0\$	0	0\$	0\$
Pull-up Requisitions	Same	Same	0	0	0	20	\$0	0	\$0	\$0
Check D035 Asset Availability-	;	,		,000	1070	6	700	44466	474	\$10 CAA
Through Automated DESEX	41	3	88	93%	1976	0L\$	\$2,601	14100	4/4	\$18,044
Check D035 Asset Availability	CV.	C	Ç	03%	18152	7.	\$2 737	14912	878	\$19 625
Status- I nrougn Teinet	43	0	9	9270	20101	-	44,101	71.01	2	20,00
Requisition in D035- If still in	180	LC.	17.5	%26	9100	\$48	\$11.976	65240	\$341	\$85,861
Requisition in D035- Call	3	,	2			2				
Automated DESEX Phone										
System *	300	S	295	%86	15340	\$80	\$20,189	109976	\$575	\$144,736
Generate a SPR to SBSS	35	-	34	%/6	1768	£6	\$2,327	12675	\$66	\$16,681
Check D035 Requisition Status-						0.0	000.00	000777	00.54	3070
Through Automated DESEX	40	3	37	93%	14867	\$78	\$19,566	111038	085\$	\$146,135
Check D035 Requisition Status-							-			
Call Item Manager Directly using								000	000	700
DSN ***	237	3	234	%66	94021	\$491	\$123,739	702243	\$3,509	\$924,204
Check D035 Requisition Status-		•	,	300	0	,	7	70007	4007	4467 004
Through Teinet *	43	3	40	93%	16072	\$84	7¢1,15¢	120042	1700	400, 904
Check DLA Shipping Status	22	2	53	%96	21295	\$111	\$28,026	159055	\$831	\$209,328
Produce PowerPoint Charts of	Not		٥ V		No	ON No	o N	S Z	2	0 2
Requisition & Status Data **	Available	က	Compare	No Compare	Compare	Compare	Compare	Compare	Compare	Compare
Print, E-Mail, or Export to File						;	:		:	
Data in Various Formats,e.g.,	Š		ž		°Z	<u>8</u>	<u>2</u>	0 2	2	0 Z
Excel, PowerPoint, Text **	Available	4	Compare	No Compare	Compare	Compare	Compare	Compare	Compare	Compare
TOTAL	351	14	337	%96	49006	\$256	\$64,495	362175	\$1,892	\$476,649

All Column Totals exclude these rows since an alternate method with less key strokes is also presented in the table

and already included in the totals

** All Column Totals exclude these rows since there is no current As Is comparison

*** All Column Totals exclude this row since after checking status by automated sources, calling IM is still the last source **** Dollar Savings are calculated using E-5 rates from SAF/FMBOP FY98 Military Rates Per Unit of Time - Air Force Based on FY 1999 President's Budget, in AFI 65-503 Table A20-1, 27 Feb 98

Figure 16 - Wrapper Time and Dollar Savings

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4.3.4 Cost/Benefit Analysis

The AFCSS MICAP Section workload consists of New Starts and In-Work MICAP Requisitions. Table 14 - AFCSS MICAP Section Workload, is a summary from a daily sample of MICAPs processed by the AFCSS MICAP Section at Langley. Using this data along with projections of future workload gathered by the AFCSS MICAP Section, daily savings from using the wrapper were developed. The sample shows, as of 30 Sep 98, there was a daily average of 626 MICAPs consisting of 52 (8%) New Starts and 574 (92%) In-Work Requisitions. The ACC MICAP Section works all New Start and In-Transit requisitions everyday.

Table 14 - AFCSS MICAP Section Workload

	TOTAL AFCSS	MICAPS	SAMPLE		
BASE	TOTAL MICAPS	NEW*	TEX 7	TEX M	DATE
Total Deployed Units	1678	190	190	0	
Daily Avg Deployed Units	336	38	38	0	
Total OFFUTT	291	29	13	16	
Daily Avg Offutt	58	6	3	3	
Total BEALE	132	16	15	1	
Daily Avg Beale	26	3	3	0	
Total LANGLEY	1027	27	14	13	1
Daily Avg Langley	205	5	3	3	
Total Samples	3128	262	232	30	
Avg Total Samples /Day	626	52	46	6	
Avg Total Sample minus Avg	New Starts/Day	626 - 52 -	574	# MICAPs I	n-Work
		574/626 =	92%	% MICAPS	In-Work

^{*} New = New Starts. The data in the "New" Start Column is already counted in the "Total MICAPS" Column. Hence, MICAPs worked on prior to this date are equal to "Total MICAPS" minus "New" Starts. New Start Column data is a sum of Tex 7 plus Tex M data.

Figure 15, Current & Future MICAP Wrapper Keystroke Savings spreadsheet, shows these keystroke savings by day. Figure 16, "Current & Future MICAP Wrapper Time and Dollar Savings" shows time and dollar savings by day. Savings were based on E-5 rates from the FY 98 Military Pay Rates Per Unit of Time – Air Force (see Table 5 - E-5 Pay Rates). The "Current & Future MICAP Wrapper Time and Dollar Savings" spreadsheet (Figure 16 - Wrapper Time and Dollar Savings) uses As Is time measurements from the AFCSS, except for the "Check DLA Shipping Status," which was timed using a web browser. It also uses To Be times (second column in spreadsheet) taken from programmers versus actual AFCSS MICAP technician times using the wrapper, since Headquarters ACC was unable to obtain passwords to the Depot D035 systems.

Figure 16 shows daily savings as of 30 September 1998 (current time frame) and projects savings to 31 December 1999, when all of HQ ACC wings will be regionalized and working their MICAPs through the AFCSS MICAP section at Langley. The In-Work Requisitions (non-New Starts) consist of Backorders and In-Transit Requisitions. According to the data collected by the AFCSS MICAP Section Chief, they work more than 70% of all In-Work (non-

New Start) MICAP Requisitions and 100% of the New Start Requisitions every day. Therefore, 70% of 574 total In-Work MICAPs equates to 402 In-Work MICAPs per day worked by the AFCSS MICAP Section as of 30 Sep 98. The 402 In-Work MICAPs plus 52 New Start MICAPs equals 454 Total MICAPs worked each day by the AFCSS MICAP Section as of 30 Sep 98. Savings were calculated by measuring the difference in keystrokes and time between the As Is and the To Be processes. As of 30 Sep 98, if this workload were accomplished by using the SBSS to D035 Wrapper it would have saved 25,224 keystrokes per day or \$64,495 per year at ACC.

The AFCSS MICAP Section estimated the 31 December 1999 workload after calling all the other ACC MICAP sections for their input. Based on the result of their queries, they estimated the total ACC MICAP workload to be 4,660 MICAPs per day, a 744 percent growth in AFCSS workload. Using the same ratio of New Starts to In-Work requisitions as in our 30 Sep 98 sample, 8 percent of the 4,660 (373) would be New Starts and 92 percent (4,287) would be In-Work requisitions. Therefore, if the MICAP section work 70% of these 4,287 In-Work requisitions (3001) and 100% of the New Start (373), it will work on a total of 3,374 requisitions per day after 31 Dec 99. If this post-31 Dec 99 workload is accomplished by using the SBSS to D035 Wrapper, it can save 185,654 keystrokes per day or \$476,649 per year at ACC.

For the "Check D035 Asset Availability, Requisition in D035," and "Generate a SPR to SBSS" processes, the differences between the As Is and To Be processes were multiplied by the New Starts figure (52 for 30 Sep 98 and 373 for 31 Dec 99). For the "Check D035 Requisition Status and "Check DLA Shipping Status" processes, the differences were multiplied by 70% of the In-Work figure (402 for 30 Sep 98 and 3,001 for 31 Dec 99).

Overall, the SBSS to D035 Wrapper reduces keystrokes for the MICAP technician by 95%. In addition, savings are also experienced at the depots. The Depot Customer Service Operator or Item Manager's time is freed each time the wrapper is used to create a requisition or to obtain requisition status. We did not attempt to quantify these savings to the depot.

Since we were unable to obtain actual AFCSS MICAP Section To Be times when using the wrapper, we may need to conduct a test of the wrapper being used by MICAP Technicians in their daily work environment at a later date. Regardless, the SBSS to D035 Wrapper, as it is today, adds great value to any MICAP function, but it has far greater potential which can only be achieved by obtaining access to the five depot D035A systems for further testing and enhancement.

4.3.5 Potential Future Improvements for the SBSS to D035 Wrapper Application

The wrapper can further automate and improve the MICAP process, as well as enhance the management of MICAPs and improve MICAP technician effectiveness. Although the Wrapper was successfully tested and has demonstrated its potential value, there are several opportunities for further improvement.

Essential updates to the SBSS to D035 Wrapper include:

- Obtaining access to the other depot D035 systems to further test the wrapper. Requires password access to the five Air Force depots.
- Enabling the wrapper to pull requisitions from the other HQ ACC locations. Now that the wrapper works with Langley, add the other ACC wings that are being regionalized within ACC (regionalization to be completed by 31 December 1999).
- Making the wrapper a 32-bit application to speed up and putting it on a LAN server to allow use by the entire MICAP section simultaneously, sharing one database. The wrapper was initially developed as a desktop 16-bit application due to lack of 32-bit software at ACC. ACC now has the software to accommodate this update.

The following enhancements will further improve the SBSS to D035 Wrapper's functionality and user interface:

- Allowing highlighting of multiple requisitions to be worked at the same time
- Automating the "pulling in" of MICAP requisitions from SBSS, and further checking D035 asset availability prior to the MICAP technician's arrival at work
- Adding Tables to convert acronyms and error messages into plain English.
- Adding a menu button to send comments, data and reports directly to a web page or LAN server
- Adding the capability to produce other types of reports and charts
- Automating the use of a User's login and password for access to SBSS and D035 to speed-up the wrapper's processing time.

Another opportunity for improvement is in the use of a new D035 Stock Control Web site, developed by Ms. Jo-Ann Tudor, HQ AFMC/LGNM. This web site will have the capability to display asset balances, requisition status, and Item Management/Item Manager data, as well as part number, stock number, and cross-reference information for any Air Force Depot requisition made in D035. There are future plans to allow requisitions to the depots from the web site. When this web site becomes available, a hot link could be added to the SBSS to D035 Wrapper.

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Chapter 5 STUDY COST/BENEFIT ANALYSIS

5.1 DIRECT SHIP

In order to realize the full potential savings of implementing Direct Ship at a unit, it is necessary to eliminate trips the unit makes to transport non-express carrier-eligible property to TMF. Direct Ship at Langley provided limited benefits due to the inability to eliminate these trips. We believe a scheduled pickup and delivery service could accomplish this goal. The Dyess Express demonstration at Dyess AFB, TX, the movement portion of the Shaw AFB Transportation/Supply Merger, and the Parts Movement Power Team Study at McConnell AFB KS demonstrated that the use of consolidated, scheduled and on-call pickups from individual units saved on vehicle cost and maintenance. We did not attempt to validate the efficiencies/savings contained in these reports; however, we believe that implementing a scheduled and on-call express-type on-base asset movement concept would enable full realization of the benefits of Direct Ship.

If trips are eliminated, the annual Vehicle O&M savings plus the labor savings result in a total saving for the CRS Engine Shop of \$17,283 per year. Since this savings only represents the CRS Engine Shop, which is 23 percent of Langley's Total Direct Ship Express Carrier Eligible Outbound packages, then Langley's potential Total Annual Savings for direct shipping is \$75,143. ACC's estimated potential Total Annual Direct Ship Saving is \$768,382.

Additionally, during the Direct Ship test, we noticed that the CRS Engine Shop was manually producing an AF Form 2005. Automating the process was relatively simple and we did so at that time. Consequently, TINs are now printed on 3-part paper directly after data input to SBSS. This was an unanticipated benefit with savings in time as well as the added benefit of increased data accuracy.

5.2 DIRECT RECEIPT

Limited Direct Receipt samples were collected at Langley Air Force Base, Virginia, due to the Shaw Transportation/Supply Merger. The Langley Direct Receipt test data we did collect supported the Shaw findings and recommendations. We did not attempt to validate the efficiencies/savings contained in the Shaw Transportation/Supply Merger report. Implementing Direct Receipt at the CRS Engine shop potentially saves \$4,106 annually, and, if implemented for the remaining organizations, would save an additional \$15,447. Langley's total annual savings potential is \$19,553. ACC's total potential annual savings from implementing Direct Receipt across all bases in ACC are \$259,665.

5.3 SBSS TO D035 WRAPPER

The SBSS to D035 Wrapper application, as developed for ACC, adds value to the MICAP function in terms of easier and quicker access to much-needed data. However, it has far greater value that can only be achieved after obtaining access to the five depot D035A systems and further automating and enhancing the capability of this wrapper application.

1 able 15	- Summary	or Potentia	ai Savings	

Total Potential Savings* Total Potential Savings**	\$21,389.00	\$94,696.00	\$1,092,542 \$1,504,696
Wrapper Savings**			\$476,649
Wrapper Savings*			\$64,495
Direct Receipt Savings	\$4,106	\$19,553	\$259,665
Direct Ship Savings	\$17,283	\$75,143	\$768,382

* As of 30 Sep 98 ** As of 31 Dec 99

Because we were unable to actually install the wrapper application in the ACC MICAP Section, savings were derived based on the number of keystrokes required to perform the MICAP processes both manually and electronically, rather than the actual time to perform those processes. In addition to the keystroke savings, we captured the times it took to complete each MICAP process using the wrapper in a lab then compared these to current MICAP Section times to quantify potential time savings.

Wrapper savings were calculated based on two points in time. If implemented before ACC has regionalized all it's bases, the SBSS to D035 Wrapper can save \$64,495 per year at ACC. After 31 December 1999 when ACC has regionalized all it's bases, the SBSS to D035 Wrapper savings will grow to \$476,649 per year at ACC. If other commands across the Air Force also regionalize their MICAP activities, savings from using the SBSS to D035 Wrapper could also be achieved in their regional Supply Squadrons.

5.4 TOTAL POTENTIAL SAVINGS

The potential impact of implementing Direct Receipt and Direct Ship at the CRS Engine Shop Support Section alone would be \$21,389 annually or, if implemented in all sections at Langley AFB, could yield an annual savings of \$94,696. From the HQ ACC perspective, adding the 30 Sep 98 AFCSS savings from using the Wrapper and implementing Direct Ship and Direct Receipt at all of its bases produces a total potential annual savings of \$1,092,542. Were ACC to implement the SBSS to D035 Wrapper when it has regionalized all it's bases, the total potential annual savings across ACC would be \$1,504,696. While we did not attempt to extrapolate these savings for AF-wide implementation, clearly savings would be generated at similar rates if Direct Ship, Direct Receipt, and MAJCOM use of the SBSS to D035 Wrapper were implemented across the Air Force.

Chapter 6 CONCLUSIONS

Direct Ship can save both manpower and money if implemented properly. Certain criteria should be considered before implementing Direct Ship.

- There needs to be a support section at the shipping location with enough manpower to handle the increased workload, if required. A manpower study of both Central Shipping and any organizations using direct ship should be conducted to determine manning requirements.
- Adequate facilities must be available to handle and process any packages to be shipped.
 The facilities must include materiel handling equipment, LAN lines, SBSS lines, and appropriate holding space.
- Another consideration is whether there will be sufficient workload at the location to warrant it as an express carrier pickup location. FedEx requires a minimum of 10 FedEx-eligible packages per day for utilization of their PowerShip terminals.

Direct Receipt can save manpower, money, and asset pipeline time if implemented in locations with the proper facilities. Conceptually, Direct Receipt could apply to any asset, regardless of size or special handling requirements. However, there are some considerations that should be evaluated before implementing Direct Receipt.

- The receiving location selected should be a designated SBSS warehouse with sufficient manpower to handle the increased workload.
- Adequate facilities must be available to handle and process any packages to be received.
 The facilities must include suitable materiel handling equipment, LAN lines, SBSS lines, and appropriate holding space.
- Any area selected to implement Direct Receipt should have a method for preventing the co-mingling of inbound and outbound property.
- Direct Receipt implementation should be considered only at locations that are in close proximity to the requisitioning organization.

Additionally, Direct Receipt REX modifiers should be applied only to NSNs that are used by a single customer, or to NSNs that are normally picked up by the requisitioning organization(s). Direct Receipt REX modifiers should be applied only to NSNs that have the physical characteristics (size, weight, hazardous material, etc.) that the receiving location can handle.

Wrapper Applications have tremendous potential to decrease workload and streamline operations in MICAP sections, as well as many other units. Any task with the potential to be automated or any situation that requires data transfer between systems is a candidate to benefit from wrapper applications.

Even though the inability to obtain password access to D035 meant we were unable to actually install the wrapper application in the AFCSS MICAP Section, we were able to derive savings based on programmers' performance of each task using the wrapper, versus actual AFCSS MICAP Technician times.

Therefore, to effectively implement use of the SBSS to D035 Wrapper, the following steps must be taken:

- Obtain access to the other four depot D035 systems to further test the wrapper. Requires AFMC provide appropriate password access to the five Air Force depots D035 systems.
- Make the Wrapper a 32-bit application and install it on a LAN server.
- Install the Wrapper and validate its use by technicians at AFCSS.
- Enable the Wrapper to pull requisitions from the other HQ ACC locations that are being regionalized within ACC (regionalization to be completed by 31 December 1999).

Chapter 7 RECOMMENDATIONS

These recommendations pertain only to the findings selected from the Phase I Logistics Process Optimization Study for further study under this project. Additional opportunities for improvement are identified in the Phase I report and recapped in Appendix B. The ACC To Be Process Model found in Volume II of this report can be used to expand process descriptions and/or identify additional areas for improvement studies. The Future To Be Asset Sustainment Process Model, found in Volume III, can be used to encourage discussions on the direction which future processes and concepts for logistics should move.

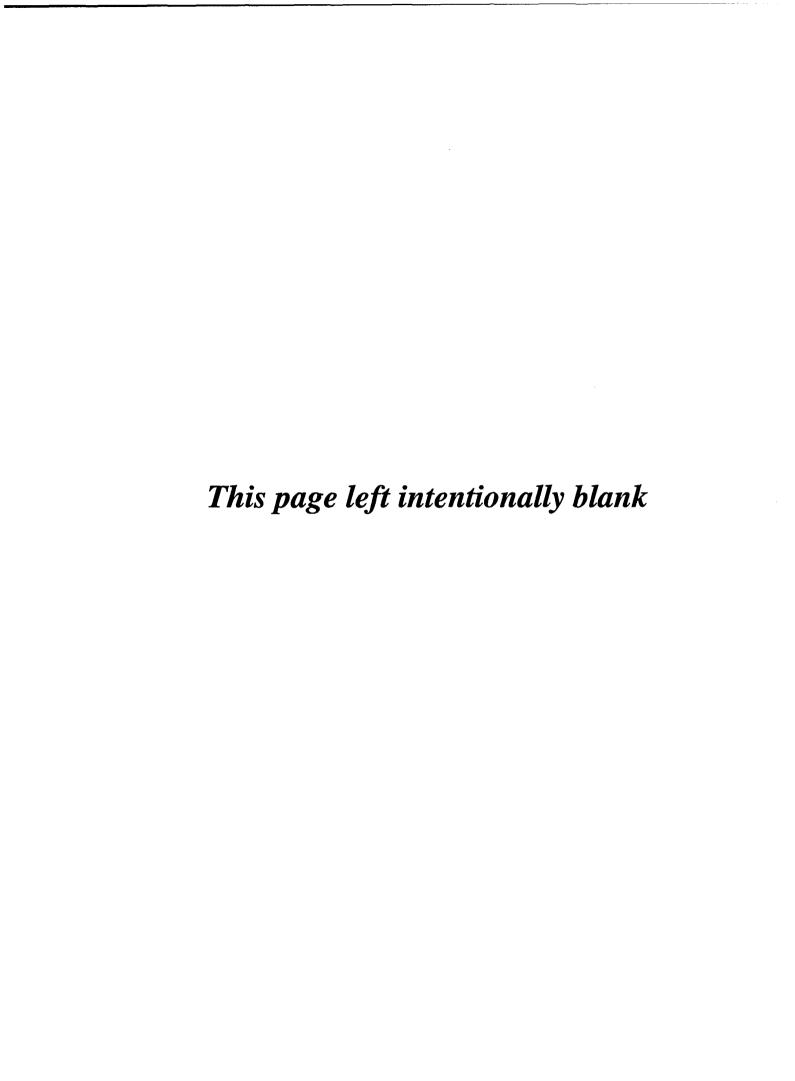
It is the recommendation of the AFLMA Reengineering Team that the USAF should:

- 1. Implement Direct Ship (with a scheduled and on-call on base asset movement concept) in units that meet the criteria of being an appropriate Direct Ship site. (OPR: HQ USAF/IL)
- 2. Implement Direct Receipt (with a scheduled and on-call on base asset movement concept) in units that meet the criteria of being an appropriate Direct Ship site. (OPR: HQ USAF/IL)
- 3. Pursue further testing and development of the SBSS to D035 Wrapper Application, to include:
 - a. HQ AFMC must provide appropriate password access to the depot D035 systems to further test the wrapper (OPR: HQ AFMC. OCR: HQ ACC/LGS)
 - b. Enhance, install and validate technician use of the SBSS to D035 Wrapper at AFCSS. (OPR: HQ ACC/LGS)
- 4. Adopt the ACC To-Be Model (Volume II of this report) as the baseline USAF To-Be Model for the short term. (OPR: HQ USAF/IL)
- 5. Use the ACC To-Be Model (Volume II of this report) to further expand process descriptions and/or identify additional areas for improvement studies. (OPR: HQ USAF/IL)
- 6. Use the Future To Be Asset Sustainment Process Model, found in Volume III, to foster discussions on the future processes and concepts for logistics and establish strategic direction for overarching reengineering efforts. (OPR: HQ USAF/IL)
- 7. Use the Phase I Logistics Process Optimization Study findings and other reengineering initiatives to develop a prioritized list of reengineering opportunities and and a strategy to pursue those opportunities. (OPR: HQ USAF/IL)

8. Pursue development of a solution for the "air gap" between CMOS and SBSS/SATS whether through development of a new wrapper application as an interim solution and/or through changes to existing systems. (OPR: HQ USAF/ILS and HQ USAF/ILT)

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Appendix A

Appendix A

LIST OF ACRONYMS AND GLOSSARY

A.1 Acronyms:

NOTE: Some of the acronyms listed may not appear in this report.

A/C Aircraft

ACA Air Clearance Authority
ACC Air Combat Command
AEF Air Expeditionary Force

AFB Air Force Base

AFCDD Air Force Corporate Data Dictionary
AFCSS Air Force Contingency Supply Squadron
AFLMA Air Force Logistics Management Agency

AFLSP Air Force Logistics Strategic Plan

AFM Air Force Manual

AFMC Air Force Materiel Command AGE Aerospace Ground Equipment AGS Aircraft Generation Squadron

AIOWIN Function Modeling and Activity Analysis Tool - Copyright by KBSI

ALC Air Logistics Center

AMARC Aircraft Maintenance and Regeneration Center

AMC Air Mobility Command

AME Alternate Mission Equipment

AMU Aircraft Maintenance Unit

API Application Programming Interface

APL Automated Packing List
APOD Aerial Port of Debarkation
APOE Aerial Port of Embarkation

APS Aircraft Parts Store

AREP Aircraft Repair Enhancement Program

ASDC3I Assistant Secretary of Defense for Command, Control, Communications and

Intelligence

ASN Advanced Shipment Notice

ATCMD Advanced Transportation Control Movement Document

AWM Awaiting Maintenance

AWP Awaiting Parts
AWS Awaiting Supplies
BOM Bill of Material

BRAC Base Realignment and Closure
BT Aerospace Vehicle Transfer status

C2 Command and Control

Appendix A Page 1 of 8

CAAS Contract Advisory and Assistance Service (at Langley AFB)

CBL Commercial Bill of Lading

CEME Centralized Equipment Management Element

CIM Corporate Information Management

CINC Commander In Chief
CNG Compressed Natural Gas

COA Course of Action

CONUS Continental United States

COSO Combat Oriented Supply Organization

COTS Commercial Off-the-Shelf

CREP Contract Repair Enhancement Program
CRI Consolidated Reparable Inventory
CSEP Contract Support Enhancement Program
CSI Consolidated Serviceable Inventory

CSRD Communications - Computer Systems Requirements Document

CSS Contingency Supply Squadron
CULT Common User Land Transportation

DAO Defense Accounting Office

DBOF Defense Business Operations Fund

DCC Dedicated Crew Chief DDN Defense Data Network

DESEX Defense Supply Expert System
DFSC Defense Fuels Supply Center
DIFM Due In From Maintenance

DII Defense Information Infrastructure
DISA Defense Information Systems Agency
DJ Depot Level Maintenance Possession Status

DLA Defense Logistics Agency
DLR Depot Level Reparable

DMBA Depot Maintenance Business Area
DMRD Defense Management Review Decision

DOC Designed Operational Capability

DOD Department of Defense

DODAAC Department of Defense Activity Address Code

DODD Department of Defense Directive

DOR Due-Out Release

DPEM Depot Purchased Equipment Management
DREP Depot Repair Enhancement Program

DRMO Defense Reutilization and Marketing Office (changed to DRMS)
DRMS Defense Reutilization Marketing Service (formerly DRMO)

DUSDL Deputy Under Secretary of Defense for Logistics

eAF Expeditionary Aerospace Forces
EDI Electronic Data Interchange
EMS Equipment Management Section

EOQ Economic Order Quantity

EOR End of Runway

Appendix A Page 2 of 8

EP Enhancement Program ER Exceptional Release

ESOC Emergency Support Operations Center

FCC Fuels Control Center FedEx Federal Express

FLL Forward-based Logistics Location

FMS Foreign Military Sales
FSC Flight Service Center
FSL Forward Support Location
FYDP Future Years Defense Program
GBL Government Bill of Lading

GPRA Government Performance and Results Act
GSA Government Services Administration

GSD General Support Division
GUI Graphical User Interface
HHT Hand-held Terminal

I2P Industry Information Processor (CMOS module)

ICI Interactive Communication Interface

ICOM Inputs, Controls, Outputs and Mechanisms

ICP Inventory Control Point

IDEF Integrated Definition for Information Modeling (Structured analysis & design

methodology)

IL Integration Laboratories

IM Item Manager (Materiel Manager)

IMPAC International Merchants Purchase Authorization Card

IPB Illustrated Parts Breakdown

IREP Intermediate Repair Enhancement Program

ISU Issue Transaction (SBSS)
ITV In-Transit Visibility
JCN Job Control Number
JCS Joint Chiefs of Staff

JEIM Jet Engine Intermediate Maintenance

KBSI Engineering, modeling, and systems/software development company

LAN Local Area Network
LFA Large Frame Aircraft

LMA Logistics Management Agency

LMR Land Mobile Radio LOX Liquid Oxygen

LPP Local Purchase Program
LPS Local Purchase Status
LRU Line Replaceable Unit
LTL Less Than Truckload

MACA Military Airlift Clearance Authority

MAJCOM Major Command

MASO Munitions Accountable System Officer MC Mission Capability/Mission Capable

MDS Mission Design Series MICAP Mission Capable

MILSTRIP Military Standard Requisitioning and Issues Procedures

MISTR Maintenance Item Subject to Repair
MM Materiel Manager (Item Manager)
MOC Maintenance Operations Center
MRRB Management Review Board

MRSP Mobility Readiness Spares Package

MSA Munitions Storage Area MSC Military Sealift Command MSG Materiel Systems Group

MTMC Military Traffic Management Command

NMC Not Mission Capable

NMCM Not Mission Capable - Maintenance
NMCS Not Mission Capable - Supply
NPR National Performance Review
NRTS Not Reparable This Station
NSN National Stock Number

NTS Notice To Stock

O&M Operations and Maintenance

OBMS On-Board (Weapon System) Monitoring System (Future Concept)

OCM Overseas Cargo Movement (ETADS front-end processor)

OCONUS Overseas Continental United States
OCR Office of Collateral Responsibility
OPR Office of Primary Responsibility

OS&D Over, Short and Damaged P&D Pickup and Delivery

PAA Primary Authorized Aircraft
PDM Programmed Depot Maintenance
PIN Personal Identification Number
PMA Portable Maintenance Aid
PMC Partial Mission Capable
POL Petroleum, Oil and Lubricants

POS Peacetime Operating Stock
ProSim Processed-Based Simulation Design tool - Co

ProSim Processed-Based Simulation Design tool - Copyright by KBSI

PSI Parts Supportable Inventory

QAF Quality Air Force

QPM Quality Performance Measurement
RAM Reparable Asset Management
RAPP Readiness Aircrew Pilot Program

RBL Readiness-Based Leveling

RCM Reliability Centered Maintenance

RDD Required Delivery Date RDO Redistribution Order

REC Receipt

REX Requisition Exception Code

Appendix A Page 4 of 8

RF Radio Frequency
ROD Report of Discrepancy
RPS Remote Processing Site
RSP Readiness Spares Package
SAF Secretary of the Air Force

SCC Sortie Control Center (Future Concept)
SDT Second Destination Transportation

SHADE Shared Data Environment

SHP Supply Shipment Transaction (SBSS)

SIFS Supply Interface (file)

SNUD Stock Number User Directory

SOR Source of Repair SOS Source of Supply

SPI Special Packaging Instruction

SRU Shop Replaceable Unit
SSC Shipment Suspense Card
SSC Shop Service Center
SSG Standard Systems Group

T.O. Technical OrderTA Table of Allowances

TAC Transportation Account Code

TAV Total Asset Visibility

TCN Transportation Control Number TEX Code Transaction Exception Code

TFM Transportation Financial Management

TIN Turn-in

TMF Traffic Management Flight (formerly TMF). Also known as Central Receiving.

TMO Traffic Management Office (changed to TMF)

TNB Tail Number Bin

TRAP Tanks, Racks, Adapters, and Pylons

TWRAPS Traffic Management Workload Reporting and Productivity Summary

UND Urgency Need Designator USAF United States Air Force

UTC Unit Type Code

VIL Vehicle Integrated Link
VIR Vehicle Integrated Reader
VPV Virtual Prime Vendor
WCA Water Clearance Authority

WCE Work Center Event

WPOD Water Port of Debarkation WPOE Water Port of Embarkation

WR-ALC Warner Robins Air Logistics Center

WRSK War Reserve Spares Kit WSA Weapons Storage Area

WSSC Weapon Systems Support Center

Appendix A Page 5 of 8

A.2 Standard Organizations:

CC Command Element

CRS Component Repair Squadron
EMS Equipment Maintenance Squadron
FM Comptroller; Financial Management

IL Installations and Logistics

LG Logistics

LGC Contracting (Base)

LGM Weapons, Weapon Systems, and Support Equipment Maintenance

LGS Supply

LGT Transportation

LY Avionics Commodities
OG Operations Group
PK Contracting (Depot)

RACC Reparable Asset Control Center

RE Reengineering

SPO System Program Office

A.3 Forms/Documents/Reports:

ACC Form 41 Shipment Tally Sheet (In-check form)

AF Form 9 Request For Purchase

AF Form 451 Request for Packaging Service

AF Form 616 Fund Cite Authorization (FCA) also known as an "Account Book"

AF Form 1235 Physical Inventory (fuels, missile propellants)

AF Form 1297 Equipment Receipt

AF Form 1994 Fuels Receipt (for DOD A/C)
AF Form 1995 Fuels Receipt (for Non-DOD A/C)

AF Form 2005 Supply Part Issue Request

AF Form 2434 Munitions Configuration and Expenditure Document

AFTO Form 134 Aviation Breathing Oxygen Servicing Trailer Log (liquid/gaseous)

AFTO Form 350 Reparable Item Processing Tag

AFTO Form 781 Aerospace Vehicle Flight Report and Maintenance Document

(series documents)

CA/CRL Custodian Authorization/Custody Receipt Listing ("R-14")

D-6 Receipt Report
D-7 Shipment Report

D-18 Report Priority Monitor Report

DD Form 250 Bill of Lading

DD Form 1149 Requisition and Invoice/Shipping Document

DD Form 1348-1 Issue Release/Receipt Document

DD Form 1348-6 DOD Single Line Item Requisition System Document (Manual -

Long Form)

M30 Due Out Status Listing

R-14 Custodian Authorization/Custody Receipt Listing (CA/CRL)

R-15 Organization Visibility List

SF 361 Transportation Discrepancy Report (TDR)

SF 364 Report of Discrepancy (ROD)
TDR Tonnage Distribution Roster

TDR Transportation Discrepancy Report (SF 361)

Waybill Commercial Shipping Document

A.4 Systems:

DMAS

ADRSS II Automated Data Reports Submission System II
AFEMS Air Force Equipment Management System

AIS Automated Information System

ATAC-AF Advanced Traceability and Control - Air Force

AWS Automated Warehouse System
BCAS Base Contracting Automated System

CAFVIMS Consolidated Air Force Vehicle Integrated Management System

CAMS Core Automated Maintenance System
CAPS II Consolidated Aerial Port Subsystem II

CARS Consolidated Analysis and Reporting System
CAS-B Combat Ammunition System - Base Level
CEMS Comprehensive Engine Management System

CFM CONUS Freight Management System
CFRS Computerized Fault Reporting System
CMOS Cargo Movement Operations System
D035 Depot Inventory Management System

D035A Item Manager Wholesale Requisition System (world-wide inventory)
D035K Depot Retail Supply Accounting System/Wholesale & Retail Receiving

and Shipping System

D072 Other War Reserve Materiel Requirements
DAAS Defense Automated Addressing System

DAMMS-R Department of the Army Movements Management System - Redesign

DEPRA Defense Program for the Redistribution of Assets
DFAMS Defense Fuels Automated Management System

DFAS Defense Finance and Accounting System

(-DA: Dayton; -DE: Denver; -IN: Indianapolis) Dyna-Metric Microcomputer Analysis System

DSS Distribution Standard System
EPS Exchangeable Production System

ETADS Enhanced Transportation Automated Data System

EXPRESS Execution and Prioritization of Repair Support System (Asset Management

and Dist System)

FAMS-A Fuels Automated Management System - Air Staff

FAS Fuels Automated System

G009 Government Furnished Material Transaction Reporting System

Appendix A Page 7 of 8

GCSS Global Combat Support System GTN Global Transportation Network

HOST Headquarters On-Line System for Transportation

ILSS Integrated Logistics System-Supply IMDS Integrated Maintenance Data System

M024B Intersite Gateway System

MACA Military Airlift Clearance Authority
MADS Message Accountability Delivery System

MASS MICAP Asset Sourcing System
METS Mechanized Export Traffic System

MTS Material Tracking System

OLVIMS On-Line Vehicle Integrated Management System SAMMS Standard Automated Materiel Management System

SATS Supply Asset Tracking System SBSS Standard Base Supply System

SEMR Senior Executive Management Review

SIFS Supply Interface

TC AIMS II Transportation Coordinators Automated Information for Movement

System. This DOD System will eventually replace CMOS. Until then,

TC AIMS II will interface with CMOS. Used by SEMR.

UMMIPS Uniform Materiel Movement Issue Priority System

VAN Value Added Network

VLIPS Visual Logistics Information Processing System

WPS Worldwide Port System

WSMIS Weapon System Management Information System

WSSP Weapon System Support Program

Appendix A Page 8 of 8

DURATION	Long-Term	Mid-Term	Long-Term
IMPACT	Maximum Improvement	Maximum Improvement	Maximum Improvement
EXPANSION	Procedures should be established to address the above disconnect between goals and funding and the incentive for wings to exceed established goals. Ensure Commands will not establish MC goals that cannot be met within the funding levels provided to the depots.	Remove Incentives for Identify and remove incentives Maximum Exceeding MC Goals that reward a wing for exceeding Improvement standards, and perhaps establish disincentives.	1. Develop incentives which will Maximum focus all Logistics Asset Sustainment Process activities on the ultimate goal of producing mission capable weapon systems. The white paper at Appendix F further discusses one concept for achieving this objective. 2. Following the redesign of the total process, existing metrics will be re-evaluated and new metrics developed to ensure internal activities are incentivized to support the overarching process goal.
RECOMMENDATION	Link MC Goals to Sustainment Funding	Remove Incentives for Exceeding MC Goals	Depot Ownership of Not Mission Capable - Supply (NMCS) Aircraft
EXPLANATION	Command-established weapon system MC goals are not directly linked to asset sustainment funding levels. Warfighter expectation of the logistics system is totally disconnected from the realities of funding. The warfighter assumes the logistics system is designed to immediately provide everything ordered. If items are not immediately provided when ordered, the warfighter concludes the logistics system is "broken." The reality is that the depot is funded to buy enough materiel to achieve an 85% MC rate. Historically, the logistics system can repair enough materiel to maintain the AF at close to 85% MC. However, Air Staff establishes MC goals for the wings which are not directly related to depot funding levels.		The Logistics Asset Sustainment Process is fragmented, with each activity recognizing only the next activity in the process as its customer with little focus on the ultimate goal. Many of the existing metrics focus activity attention on internal goals and isolate activities from the total overarching process goal. As a result, many internal activities pursue behaviors counter-productive to the total over-arching process goal.
	Air Staff/MAJCOM Focus - Mission Capability (MC) Goals Are Not Linked to Sustainment Funding	Wing Focus - Wings Are Incentivized to Exceed MC Goals	Depot Focus - Depot Output is Not Focused On Wing MC Goals
APPLICABI LITY	Overail	Overail	Overall
TITLE	MC Goals Not Linked Overall to Sustainment Funding	Exceeding MC Goals	Depot Focus on Wing MC Goals
NUMBER	3.1.1	6. G.	3.1.3

NOIL	ess ss pme yy tool SAF e.	E
DURATION	Mid-Term - requires developme nt of visibility tool and USAF policy change.	Mid-Term
IMPACT	Moderate Improvement - saves shipping costs on carcass-long assets.	Maximum Improvement
EXPANSION	Develop a tool to provide retail shippers visibility of carcass-short assets. Change AF policy to allow retail managers to express-ship only carcass-short assets to the depot. Change AF policy to allow depots to express-ship serviceable assets only when it improves MC at the wing	Mid-Term: Develop and provide real-time links between legacy systems, such as SBSS and D035, using Modem, Internet, and/or Wrapper technology. Appendix G contains a white paper regarding Wrapper technology. Such technologies could operate in parallel with current legacy system interfaces, minimizing implementation difficulty.
HECOMMENDATION	Express-Ship Only Carcass-Short Assets	Employ Wrappers for Legacy Systems Interface
EXPLANATION	Current Air Force policy directs all carcasses to be shipped by express transportation regardless of need. Only carcass-short items need fast transportation. We may be spending money unwisely. All reparable carcasses are express-shipped from bases to depots without regard or knowledge as to whether assets are carcass-long or carcass-short. All serviceable assets are routine-shipped from depots to bases with the exception of MICAPs. MICAPs are express-shipped without regard for immediate need. Many times, MICAP assets are not immediately installed on the aircraft but are placed in tail number bins awaiting installation.	There is a lack of real time interfaces between legacy systems. Most legacy systems are batch systems and were developed as closed systems within each functional stovepipe organization. Some interfaces have been developed, however many involve passing data through multiple nodes. Each node causes delays and information losses often occur. For example, there is no direct link from the Standard Base Supply System (BBSS) to the Depot Inventory Management System (D035), or direct access to D035 data from the retail bases. Currently this interface requires transmitting information from the SBSS through the Automated Data Reports Submission System (I ADRSS II), to the Defense Automated Addressing System (DAAS), to the Defense Program For Reutilization of Assets (DEPRA), back to DAAS, then to the Inventory Control Point (ICP), to the Intersite Gateway System (M024B), and then to the Item Manager Wholesale Requisition System (D035A). New systems in development, such as Global Combat Support System (IMDS), should provide long-term solutions to these problems.
FINDING	Unnecessary Express-Shipping of Carcass-Long Assets	Limited Interface Between Legacy Systems
APPLICABI	Overall	Overall
- TITE	Unnecessary Express-Shipping	Legacy System Interfaces
NUMBER	3.1.4	3.1.5

TITLE Asset Shipment	E	APPLICABI LITY	FINDING AF Asset Shipment	EXPLANATION AF assets shipped between bases and depot are	RECOMMENDATION Air Force Designate	EXPANSION 1. Air Force standardize with	IMPACT Minimum	DURATION Mid-Term -
Priorities				C		other Services and direct ship according to priority code rather than UMMIPS priority and RDD. 2. Air Force pre-determine shipment priority for asset return from the depot, and code it as express or routine on DD Form 1348-1 before forwarding to DLA for follow-through.	Improvement	involves action and agreement between Air Force and DLA.
Barcoding Systems Overall	Overall		Barcoding Systems are not Standardized	There are numerous barcode systems used throughout the logistics pipeline. Each of these systems creates a unique barcode for its segment of the logistics process. As a result, there are disconnects between barcode systems which create requirements for manual entry of data that reside elsewhere. For example, barcodes on DD Form 1348-1 are not used by DLA's Automated Warehouse System (AWS). After the asset is inprocessed by DLA personnel, AWS creates a file to track the asset and assigns it another unique edifferent from the document number and barcode are different from the asset's DD Form 1348-1. There is no link between the two sets of file numbers and barcodes. AWS will be replaced with the Distribution Standard System (DSS).	Reevaluate Non- Standardized Barcoding Systems- Pending DSS Implementation	After installation of DSS, reevaluate to determine if the implementation of DSS has resolved this problem.	Minimum Improvement	Mid-Term - contingent upon DSS implementa tion.

DURATION	Mid-Term	Mid-Term
IMPACT	Maximum Improvement	Moderate Improvement
EXPANSION	Develop a process by which the extraordinary management actions taken to satisfy a MICAP requisition are taken based on the relationship between a unit's current fleet MC rate and the HQ-established MC goal, rather than on each individual aircraft's MC status. Additionally, new terminology should be developed to prevent confusion between an individual aircraft's MC status and an operational unit's MC status.	An ACC Reengineering Team (Maintenance and Supply) should be formed to reevaluate the QPMs (which result in cannibalization rather than substitution of MC aircraft when meeting daily flying schedules).
RECOMMENDATION	Link MICAP Status to MC Goals	Change Aircraft Scheduling Directives/Methods
EXPLANATION	Currently, MC goals are established by higher headquarters for each squadron's aircraft fleet. These MC goals recognize that some of each squadron's aircraft will not be mission capable at any given time, due to part shortages or maintenance requirements. However, current requisitioning directives require the squadron to requisition those parts causing any aircraft to be non-MC, in MICAP status, regardless of the overall fleet MC. The MICAP requisition status causes the base supply to take extraordinary management actions to procure the part. If the Base Supply were successful in all the procurement actions, satisfying all MICAP requisitions instantly, the squadron's fleet MC goal would be exceeded. However, the sustainment system is not funded at 100%. Therefore, any one squadron exceeding its MC goal has done so at another squadron's expense.	Aircraft flying scheduling directives require identification of specific aircraft for daily flying schedules up to one week in advance. If the identified aircraft becomes Not Mission Capable-Supply (NMCS) on a day when it is scheduled for flight, another mission capable aircraft cannot be substituted without incurring a "scheduling deviation." Quality Performance Measures (QPMs) have been developed which incentivize Maintenance Managers to minimize "scheduling deviation," occurrences. To minimize "scheduling deviations," Maintenance Managers will direct cannibalization of parts from an aircraft that is not scheduled to fly. This will occur even when other unscheduled MC aircraft are available to fly. This practice consumes resources and occasionally results in damaged parts, without improving overall MC.
FINDING	MICAP Requisition Status is not Based on MC Goals	Aircraft Scheduling Directives Drive Unnecessary Cannibalizations
APPLICABI LITY	Retail (Base/Wing Activities).	Retail (Base/Wing Activities).
	MICAP Requisition Status	Aircraft Scheduling Directives
NUMBER	3.2.1	3.2.2 2.2

DURATION	Mid-Term	Near-Term
IMPACT	Minimal Improvement	Moderate Improvement - Iittle impact on asset processing time but reduced handling requirements will have a significant impact on resource requirements.
EXPANSION	1. Ship reparable assets directly to final repair/storage location. a. Establish a database of separate DoDAACs or street addresses for all repair/storage locations. b. Link stock numbers to DoDAACs or addresses. c. Ensure the database is readily accessible to the shippers. 2. Make existing DoDAACs more easily available to shippers. 3. Encourage shippers, through incentives, to use correct DoDAACs.	Request shipment of serviceable assets directly to Improveme final storage/issue locations. a. Establish separate DoDAACs asset or use street addresses for all storage/issue location. b. When requisitioning assets, handling use the SBSS storage location and atabase to request shipment to will have a final storage location. The Aircraft Generation impact on Squadron (AGS) Parts Stores would become the asset receipt, requirement inspection, storage, and issue aircraft assets.
RECOMMENDATION	Develop Direct Shipping	Develop Direct Shipping
EXPLANATION	Retail shippers send some Lean Logistics items to Develop Direct the incorrect Department of Defense Activity Address Codes (DoDAACs). As a result, assets with incorrect DoDAACs are received at the depot DLA Central Receiving rather than at their ultimate destination warehouse. This results in additional handling and delay following the receipt of the asset at the depot DLA Central Receiving. There are several possible DoDAACs for delivery destinations at each depot which may exacerbate the situation. The DoDAAC database is contained in Do35T (distribution), however, this data is not readily available to shippers.	All retail requisitions to the depot include instructions for the depot to ship assets back to base Central Receiving (TMF). Following initial receipt at base Central Receiving, the asset must be moved to its final storage/issue location. This results in additional handling and delay.
FINDING	Retail Some Reparable (Base/Wing Assets Shipped to Activities). Depot are Misaddressed	Unnecessary Asset Handling in Base Receiving Process
APPLICABI ITY	Retail (Base/Wing Activities).	Retail (Base/Wing Activities).
TILE	Shipping Addresses	Unnecessary Asset Handling - Base Receiving
NUMBER	3.2.3 3.2.3	8.2.4.

DURATION Near-Term	Near-Term
IMPACT Moderate Improvement - little impact on asset processing time but reduced handling requirements will have a significant impact on resource requirements.	Moderate Improvement - shortening the process (from days to minutes) of placing a requisition to the depot and receiving the status, will allow bases to make timely aircraft management decisions. Direct interface to D035 will also help eliminate transmission losses.
EXPANSION Install FedEx PowerShip terminals at all base locations meeting minimum daily shipment volume requirements. Ship all assets meeting carrier's size and weight criteria directly from these locations. Base TMF would ship all other assets (those not meeting carrier's criteria).	Develop real-time links between SBSS and D035, using Wrapper Improvement technology. Appendix G contains a white paper regarding Wrapper technology. This technology could operate in of placing a parallel with the current appendix of placing an parallel with the current depot and receiving the status, will all timely aircraft management decisions. Direct interfact to D035 will all the place interfact to D035 will a help eliminate transmission losses.
RECOMMENDATION Develop Direct Shipping	Develop SBSS and D035 Wrapper Links
Base resources are unnecessarily expended moving Not Reparable This Station (NRTS) assets Shipping to a central outbound shipment location (e.g., base TMF).	The interface between SBSS and D035 consists of Develop SBSS and numerous transmissions through multiple nodes. Each node uses batch processes to execute edits on data being transmitted. These batch processes delay the transmission of information is lost. As a result, there is no real information is lost. As a result, there is no real information is lost. As a result, there is no real information is lost. As a result, there is no real information is lost. As a result, there is no real information is lost. As a result, there is no real problems occur in the reverse process. A finding by AFLMA study LS9601800, "Analysis of the Supply Requisitioning System" shows that only 17% of SBSS mail traffic are initial requisitions. Approximately 14% of these initial requisitions are lost in transmissions and follow-ups.
FINDING Unnecessary Asset Handling in Base Shipping Process	SBSS and D035 is no Slow and Uncertain In Incertain Incertain Incertain In Incertain Ince
APPLICABI LITY Retail (Base/Wing Activities).	Retail (Base/Wing Activities).
Unnecessary Asset Handling - Base Shipping	SBSS and D035 Interface
3.2.5	.3.2.6

DURATION	Long-Term	Near-Term
IMPACT	Impact: Moderate Improvement - depends on degree of implementation.	Moderate Improvement
EXPANSION	1. Base personnel could use the International Merchants Purchase Authorization Card (IMPAC) to purchase materiel directly from commercial vendors. 2. Use the Virtual Prime Vendor (VPV) Program for direct vendor to user resupply. Currently, VPV Programs are developed through DLA. DLA awards contracts to vendors to provide specific parts in accordance with vendor performance guidelines. According to how the contract is written, you can use existing contracts. Under the VPV Program, the vendor is responsible for materiel inventory and delivery. 3. Examine the results of Shaw AFB Stock Reduction Plan. 4. Streamline Local Purchase process. Refer to 3.2.15, Local Purchase Programs, for further discussion on this	Investigate deleting the requirement to manage XF assets as DIFM items.
RECOMMENDATION	Implement Base Supply Inventory Reduction Program	Discontinue DIFM Management of XF Assets
EXPLANATION	Base Supply is unnecessarily maintaining inventories of assets that are readily available from other sources. If Base Supply no longer stocks assets readily available through other sources, then inventory, holding, and resource costs would be reduced. Currently, Shaw AFB Supply Squadron is testing an inventory reduction plan. This test is intended to reduce Base Supply inventory to weapon system related assets which are not readily available from other sources.	There is a significant amount of Supply and Maintenance resources expended managing DIFM Management of XF assets. The financial accountability for these assets is necessary to provide the incentive for responsible activities to track and control the assets. DIFM assets are divided into two distinct categories, XD and XF. XD assets, if unrepairable at the base, are transferred to the depot and Clears the base of DIFM (financial) accountability. XF assets, if unrepairable at the base, are condemned at the base and replaced with base of ORM funds provides financial incentive for responsible units to track and control these assets without use of the DIFM management process.
FINDING	Bases Maintaining Unnecessary Inventories	Unnecessary DIFM Management of Field-Condemnable e Assets
APPLICABI LITY	Retail (Base/Wing Activities).	Retail (Base/Wing Activities).
TITLE	Unnecessary	Managing Due In From Maintenance (DIFM) Assets
NUMBER	3.2.7	3.2.8 8.2.8

DURATION base are not oes not enter shipment the process. When bility.	Near-Term	Near-Term
IMPACT Is from DLA to a the depot DLA do morel must enter s parent value to soe with CMOS. sit visibility capat	Moderate Improvement	Moderate Improvement
EXPANSION used by DLA. As a result, shipment om CMOS upon receipt. Because nagement Flight (TMF), TMF perso nsumes resources, and adds no ap nn DSS is implemented, it will interfate the commercial shippers' in-tran	Deliver shipments directly to final issue storage location or base end user, thereby eliminating the requirement for TMF to record receipts and processing information in CMOS for the purpose of creating accountability records.	Eliminate intermediary handlers in the shipment process and implement direct delivery of assets from DLA to the final storage/issue location.
RECOMMENDATION CMOS is not currently to base are not cleared from the base are not cleared from the base of the receipt, con the near future. Whe not be used to duplicat shipment concept.	Develop Direct Shipment	Develop Direct Shipment
EXPLANATION Overall CMOS Finding: CMOS processing may not be necessary for every shipment or receipt. CMOS is not currently used by DLA. As a result, shipments from DLA to a base are not entered into CMOS prior to shipment, when depot shipments are received by a base Traffic Management Flight (TMF), TMF personnel must enter shipment data into CMOS and then process the receipt. This practice delays processing of the receipt, consumes resources, and adds no apparent value to the process. DLA is converting from AWS to the Distribution Standard System (DSS) in the near future. When DSS is implemented, it will interface with CMOS. When commercial shippers are able to provide in-transit visibility, CMOS should not be used to duplicate the commercial shippers' in-transit visibility, capability. Subsections 3.2.9.1 through 3.2.9.8 represent different facets of the direct shipment concept.	Current timeframe: pre-DSS implementation. Currently, the DLA AWS does not interface with CMOS therefore, DLA shipments and receipts are not recorded in CMOS by DLA. TMF does not have advance notification through CMOS of inbound shipments from DLA. When DLA shipments are received by base TMF, TMF personnel must manually enter the shipment data into CMOS and then process the receipt. This practice delays processing of the receipt, consumes resources, and adds no apparent value to the process.	Current timeframe: pre-DSS implementation. Currently, the DLA AWS does not interface with CMOS therefore, DLA shipments and receipts are not recorded in CMOS by DLA. Currently, most retail bases have Traffic Management Flights (TMFs) established as central receiving points for all receipts, including DLA shipments. TMF personnel receive shipments and process them for delivery to base end users. Even though most shippers have the capability to deliver directly to the final storage/issue location, the established procedure requires TMF and Base Supply to serve as intermediary handlers in the shipment process.
FINDING Overall CMOS Finding: CMOS processing may not be neces entered into CMOS prior to shipment the data into CMOS prior to shipmen data into CMOS and then process the DLA is converting from AWS to the Commercial shippers are able to prove Subsections 3.2.9.1 through 3.2.9.8 r	Shipments from Cur DLA to Base TMF Cur CM TMI TMI DLA DELA Con into	Shipments from Cur User CM User CM Mar Mar Rece Ship Proc Hou
APPLICABI LITY Retail (Base/Wing Activities).	Retail (Base/Wing Activities).	Retail (Base/Wing I
TITLE Unnecessary Cargo Movement Operations System (CMOS) Processing	DLA to Base TMF (Pre-DSS Implementation)	DLA to Base End User (Pre-DSS Implementation)
3.2.9	3.2.9.1	3.2.9.2

DURATION	Mid-Term	Near-Term	Long-Term	Mid-Term
IMPACT	Minimal to Moderate Improvement	Moderate Improvement	Minimal Improvement	Moderate Improvement
N EXPANSION	Further study is required to determine how, or if, tracer actions are initiated by DLA when an asset is overdue.	When the base end user has the Moderate capability to make direct shipments to DLA, discontinue processing those direct shipments through TMF and discontinue entering that shipment data into CMOS.	Evaluate effectiveness of the intransit visibility following implementation of DSS.	Since most end users will not have a CMOS terminal, further study is required to determine if manual CMOS receipt processing at TMF will be required and, if so, determine the best way to accomplish the CMOS processing.
RECOMMENDATION	Develop Direct Shipment	Develop Direct Shipment	Develop Direct Shipment	Develop Direct Shipment
EXPLANATION	ne e e 9 335 d d	Express carrier shipments can be made directly from a base end user to DLA. When the base end user does not have a CMOS terminal, the shipment data is not entered into CMOS. The express carrier provides the required intransit visibility between the base end user and DLA.	When DSS is implemented, DSS will interface with Develop Direct CMOS. Therefore, DLA shipments will be automatically recorded in CMOS by DSS. As a result, base TMFs will have advance notification through CMOS of inbound shipments from DLA. Additionally, all SBSS users will have shipment visibility through the CMOS/SBSS interface.	When DSS is implemented, DSS will interface with Develop Direct CMOS. Depot DLA shipment data will be automatically entered in CMOS through DSS. This will give base end users inbound shipment visibility through the CMOS/SBSS interface.
FINDING	Shipments from Base TMF to DLA	Express Carrier Shipments from Base End User to DLA Current timeframe: pre-DSS implementation. Currently, the DLA AWS does not interface with CMOS therefore, DLA shipments and receipts are not recorded in CMOS by DLA.	Shipments from DLA to Base TMF	Shipments from DLA Directly to Final Base Storage/Issue Location
APPLICABI	Retail (Base/Wing Activities).	Retail (Base/Wing Activities).	Retail (Base/Wing Activities).	Retail (Base/Wing Activities).
TITLE	Base TMF to DLA (Pre-DSS Implementation)	Base End User to DLA by Express Carrier (Pre-DSS Implementation)	DLA to Base TMF (Post-DSS Implementation)	DLA to Final Base Storage/Issue Location (Post-DSS Implementation)
NUMBER	3.2.9.3	3.2.9.4 4.4	3.2.9.5	3.2.9.6

DURATION	Mid-Term	Mid-Term
IMPACT	Moderate Improvement	Moderate Improvement
M EXPANSION	Further study is required to determine how, or if, tracer actions will be initiated by DLA when an asset is overdue.	Further study is required to ensure DLA has direct visibility of inbound express carrier shipments and tracer actions for overdue shipments are expeditiously initiated.
RECOMMENDATION	Develop Direct Shipment	Develop Direct Shipment
EXPLANATION	When DSS is implemented, DSS will interface with Develop Direct CMOS. Therefore, DLA receipts will be automatically recorded in CMOS by DSS. Additionally, DLA will have visibility of inbound shipments through CMOS/DSS interface, will be aware of overdue shipments, and could expeditiously initiate tracer actions.	Express carrier shipments can be made directly If from a base end user to DLA. When DSS is implemented, DSS will interface with CMOS. However, when the base end user does not have a CMOS terminal, the shipment data is not entered into CMOS. The express carrier provides the required intransit visibility between the base end user and DLA.
FINDING	Activities).	Activities). Express Carrier Shipments from Activities). Base End User to DLA
APPLICABI LITY	Retail (Base/Wing Activities).	Retail (Base/Wing Activities).
TILE .	Base TMF to DLA (Post-DSS Implementation)	Base End User to DLA by Express Carrier (Post-DSS Implementation)
NUMBER	3.2.9.7	3.2.9.8

DURATION	Near-Term	Near-Term
IMPACT	Moderate	Moderate Improvement
IN EXPANSION	Discontinue manual off-line MICAP requisitions and allow the automated SBS/D035 interface to transmit requisition and status data. 2. Automate the off-line requisitioning process with a Wrapper application providing a direct link between SBSS and D035. This Wrapper application would work in parallel with existing systems, yet provide accelerated requisitions to the depot and accelerated status information to the customer. Since D035 can handle duplicate requisitions, it does not require disconnecting or modifying any existing interfaces between SBSS and D035. The white paper at Appendix G further discusses Wrapper applications.	Eliminate Base Supply validations of MICAP status and accept the customer's initial requisition prioritization.
RECOMMENDATION		Terminate MICAP Validation Process
EXPLANATION	The MICAP off-line requisitioning process is cumbersome and resource intensive. The automated on-line requisitioning and status notification response time can take as long as two days due to multiple nodes (SBSS/SIFS/ADRSS II/DAAS/M024B/D035) which batch process the data. Emerging data systems, such as IMDS and GCSS, will not provide near-term solutions. To accelerate this process, MICAP section personnel conduct "off-line" requisitions (phone Depot Customer Service and request manual input of a requisition to D035 and receive immediate status). Off-line requisitioning is a "work around" process conducted in parallel with the automated on-line requisition gystem. When the automated on-line requisition gystem. When the as a duplicate of the off-line requisition and cancel it. This demonstrates D035's capability to successfully handle duplicate requisition. Although the off-line requisition "work-around" consumes resources at both the base and the depot, it does provide immediate, rather than delayed, requisition status. The difference between immediate and delayed requisition status is of marginal value to the customer. Even though the off-line requisition "work around" may save time by avoiding the batch system processing, it may not affect actual asset shipment time because shipments depart the depot at fixed intervals.	The current process requires Base Supply to validate that a MICAP condition exists before processing a customer's backorder requisition to the Source of Supply as a MICAP. This validation consists entirely of Base Supply calling the customer to confirm the MICAP. Calling the customer who initiated the requisition is redundant and only provides an illusion of verification.
FINDING		Redundant MICAP Validation Process
APPLICABI LITY	Retail (Base/Wing Activities).	Retail (Base/Wing Activities).
1 TITLE	MICAP Off-Line Requisitioning	MICAP Validation Process
NUMBER	3.2.10 	3.2.11

DURATION	Mid-Term
IMPACT	Moderate Improvement
EXPANSION	1. Conduct a study to assess feasibility of incorporating other functions (e.g., Transportation, Maintenance, Finance, Contracting) into the AFCSS. 2. Automate current management tools, and develop new tools, to facilitate centralized control of the total asset distribution process throughout the Command. This takes full advantage of the new AFCSS centralized visibility. The following provide examples of existing technology: a. Wrapper applications produce management reports. b. Worldwide Web technology provides the capability to post standard reports on a web site for access by multiple users.
RECOMMENDATION	Identify and Develop Potential AFCSS Capabilities and Tools
EXPLANATION	HQ ACC/LGS founded the AFCSS at Langley AFB, VA. The AFCSS was initially implemented to Potential AFCSS provide supply support to deployed supply units worldwide. Due to the success of the AFCSS, and because of command-wide supply manning cuts, the AFCSS is now phasing-in the workload from MICAP, Stock Control, Computer Support, Funds Management, and Records Maintenance of all ACC CONUS-based supply squadrons throughout Calendar Year 1998. The AFCSS provides centralized visibility of the overall distribution process at command-level. This centralized visibility provides an opportunity to exercise centralized control of the asset distribution system. Procedures to exercise this potential capability have not been explored or developed.
FINDING	AFCSS Potential Capabilities not Fully Developed
APPLICABI LITY	Retail (Base/Wing Activities).
a TITLE	Air Force Contingency Supply (Base/Wing Gapabilities not Squadron (AFCSS) Potential Capabilities Potential Capabilities
NUMBER	32.12

DURATION	Mid-Term
IMPACT	Moderate Improvement
EXPANSION	Establish and test a WSSC in the Air Force Contingency Supply Squadron at HQ ACC. Adopt the WSSC concepts currently used at the depots, to improve management and distribution of assets at the retail level. The command-level WSSC will make centralized manual intervention in asset on daily changes in command priorities as defined by the priorities established by the command headquarters. The WSSC consists of the right people working together with a central goal of distributing assets to the Command's some central goal of distributing assets to the Commands. The WSSC vipically includes members from Supply, Maintenance, and Contracting. The WSSC working includes members work for one individual who is responsible for the process outcome. The WSSC concept removes the idle time and separate goals of different offices working individually and improves communication for resolution of resource issues. It also eliminates the individual wing priorities which may defeat overall command priorities.
RECOMMENDATION	Establish and Test a Weapon Systems Support Center (WSSC) in AFCSS
EXPLANATION	Currently, UMMIPS and the Asset Management and Distribution System (EXPRESS) provide an automated prioritization for distribution of assets. In a resource-constrained environment, UMMIPS and EXPRESS will distribute available assets to highest priority units at the expense of lower priority units. Each individual Base Supply establishes a MICAP section to take exceptional management actions, regardless of priority. The net effect of the MICAP sections' exceptional management actions is the active circumvention of the UMMIPS and EXPRESS distribution priorities. Therefore, scarce resources may be allocated to units that do not have the highest priority requirement and the central control function is circumvented.
FINDING	Management of Asset Distribution is Decentralized and Fragmented
APPLICABI	Retail (BaseMing Activities).
TIME	Asset Distribution Management
NUMBER	3.2.13

DURATION	Near-Term	Long-Term
IMPACT	Minimum Improvement	Moderate Improvement
EXPANSION	Priorities are already established through other means. The Supply Assistance Program has no impact on the requisition/distribution process.	Develop a streamlined local purchase program that ensures funds are expended from the proper, congressionally mandated, appropriated fund categories, and is user-friendly. Some options may include: a. Eliminating the Local Purchase Program as it currently exists. b. Consolidating all local purchase methods (e.g., Virtual Prime Vendors, IMPAC) into a single, new local purchase program. c. Transferring management of the current, or reengineered, Local Purchase Program to Base Contracting or Financial Management, thus eliminating Base Supply as the "middle man" in the process.
HECOMMENDATION	Eliminate Supply Assistance Program	Streamline Local Purchase Programs
EXPLANATION	Retail Ineffective Supply Assistance Program provides a means Eliminate Supply Activities). Based Leveling (RBL) eliminate the Item Manager's ability to take action based on the Assistance Request. Because no action can be taken, the request is ineffective, and consumes resources at the base to generate it and resources at the depot to answer it.	se Program (LPP) e for streamlining. The Supply and ensures the proper, d, appropriated fund provides an interface who order materiel to be ders, and Base tis not clear as to when uch as IMPAC) are
FINDING	Assistance Program	Local Purchase Programs are Cumbersome
APPLICABI LITY	Retail (Base/Wing Activities).	Retail (Base/Wing Activities).
TILE	Supply Assistance Program	Local Purchase Programs
NUMBER	3.2.14	3.2.15

DURATION	Long-Term	Long-Term	Long-Term	Near-Term
IMPACT	Maximum Improvement	Minimum Improvement	Minimum Improvement	Minimum Improvement
	Form an ACC/AFLMA Form a team at ACC consisting To-Be Process Team - of AFLMA, HQ ACC, AFCSS and base level representatives from Supply, Maintenance, and Transportation, to develop improved To-Be processes. This team will evaluate the results of the Shaw consolidation project during the development of a To-Be Air Force logistics process. This To-Be process will focus on the total Air Force logistics process encompassing Supply, Transportation and Maintenance functions at wholesale and retail levels.	Long-Term: The AFLMA Logistics Process Optimization Team should ensure new systems coming on-line (DSS and GCSS) resolve this problem.	Interim: The AFLMA Logistics Process Optimization Team to assist DLA in submitting a Computer System Requirement Document (CSRD) to the Material Systems Group (MSG). The CSRD is for reprogramming D035K to provide visibility of the "D7 shipment report" to DLA personnel processing inbound shipments, and reprogramming D035K to use "D7 shipment report" data to populate the "D6 receipt report" immediately upon input of the document number.	Interim: Develop a wrapper application to provide visibility of the "D7 shipment report" to DLA personnel processing inbound shipments, and use "D7 shipment report" data to populate the "D6 receipt report" immediately upon input of the document number.
RECOMMENDATION	Form an ACC/AFLMA To-Be Process Team - Incorporate Shaw Consolidation Results	Long-Term: The AFLMA Logistic Team should ensure new system and GCSS) resolve this problem.	Interim: The AFLMA Logistics Process Op Team to assist DLA in submitting a Comp Requirement Document (CSRD) to the Mi Systems Group (MSG). The CSRD is for reprogramming D035K to provide visibility shipment report" to DLA personnel processingments, and reprogramming D035K to shipment report" data to populate the "D6 immediately upon input of the document r	Interim: Develop a wra visibility of the "D7 shi, processing inbound sh report" data to populat immediately upon inpu
EXPLANATION	During development of the As-Is process flowchart, AFLMA identified several areas of redundancy between base supply and base transportation functions (e.g., receiving cargo). Concurrently, HQ ACC Supply and Transportation divisions directed a joint 90-day test merging three processes between supply and transportation at Shaw AFB, SC. The 90-day test focuses on Receiving (TMF and Supply Receiving), Moving (Vehicle Operations and Supply Pickup and Delivery), and Shipping (TMF and Supply Distribution Flight). Data system inputs are contingent upon implementation of an interface between Supply Asset Tracking System (SATS) and CMOS, so that only one input for receiving property is necessary.	In processing of assets at DLA is delayed by manual entry of data into the Deport Wholesale and Retail Receiving and Shipping System (D035K) that already exists in D035A. D035A contains DD Form 1348-1 data, "D7 shipment report," of inbound assets. However, when an asset is received, DLA receiving personnel must en-input the same DD Form 1348-1 data to create a "D6 receipt report," because D035K does not give DLA visibility of the "D7 shipment report," data.	Unnecessary Data Entry for Depot Asset In-processing	Unnecessary Data Entry for Depot Asset In-processing
FINDING	Opportunities for Supply and Transportation Merger	Unnecessary Data Entry for Depot Asset In-processing	Unnecessary Data Er	Unnecessary Data Er
APPLICABI LITY	Retail (Base/Wing Activities).	Wholesale	Wholesale	Wholesale
THTE	Supply and Retail Transportation (Base/Win Merger Opportunities Activities).	Unnecessary Manual Wholesale Data Entry Requirements	Unnecessary Manual Wholesale Data Entry Requirements	Unnecessary Manual Wholesale Data Entry Requirements
NUMBER	3.2.16	3.3.1	3.3.1- Con't	3.3.1- Con't

DURATION	Long-Term	Long-Term	Mid-Term
IMPACT	Minimum Improvement	Moderate	Minimum Improvement
EXPANSION	Continue to let the EXPRESS review team at WR-ALC work on improving the response time.	Continue to let the WR-ALC/RE and /FM EXPRESS team work this issue.	Warner Robins RE Office should Minimum undertake a study to: 1. Change depot evaluation criteria to hold DLA accountable only during the times the shops are open, and 2. Hold depot shops accountable for being available to accept express shipments.
RECOMMENDATION	WR-ALC EXPRESS Review Team to Continue Efforts To Improve EXPRESS Response Time	WR-ALC/RE and /FM Team to Continue Work Funding Issues for Common Assets	WR-ALC/RE Study and Resolve Disconnect between Depot Repair Shop and DLA Hours of Operation
EXPLANATION	There is a time lag between the time a requisition reaches D035 and the time the EXPRESS prioritized repair and distribution lists are generated and distributed to shops and DLA. Currently, it takes at least two days from the time a requisition is entered into D035 until EXPRESS produces the final prioritized repair list for the depot.	Assets is not Tied to Systems. Repair, within each Weapon System, is Prioritized by Alicraft Availability. For common Assets Aircraft Availability for a specific weapon system. Subsequently, the asset may be distributed to a different weapon system. This indicates a possible disconnect problem between "repair EXPRESS".	Depot Repair Shop Depot repair shops are not always open to accept and DLA Delivery Express-shipped carcasses delivered from DLA. Hours of Operation DLA provides 24-hour coverage Mondays through may not Correspond Fridays, and day shift on Saturdays. DLA performance is evaluated by the depot based on elapsed time from the DLA receipt of the requisition/asset to the receipt (not delivery) of the carcass/asset by the depot repair shop.
FINDING	EXPRESS Processing Delays Repair of MICAP Assets	The Distribution of Assets is not Tied to Weapon System Funding for Common Assets	Depot Repair Shop and DLA Delivery Hours of Operation may not Correspond
APPLICABI LITY	Wholesale	Wholesale	Wholesale
TILE	EXPRESS Response Wholesale Time	Asset Repair Funds	Hours of Operation - N Depot Repair Shop and DLA
NUMBER	3.3.2	3.3.3 3.3.3	3.3.4

DURATION	Long-Term (contingent upon 3.1.3, Depot Focus on Wing MC Goals)
IMPACT	Moderate Improvement
EXPANSION	Form a combined Depot and AFLMA team to research the future role of MMs and: 1. Revise/rewrite the role of the MM. Potential outcomes may include: a. Reorganize or discontinue the current role of the MM. b. Form Material Manager Teams. c. Create a WSSC-type organizational structure. 2. Develop automated tools/techniques to: a. Give MMs asset visibility throughout the logistics pipeline. b. Provide the capability to intervene as necessary to ensure proper movement of assets. 3. Ensure MMs are properly trained and qualified to perform all required tasks.
RECOMMENDATION	Form a Combined Depot and AFLMA Team to Study Roles and Tools for MMs
EXPLANATION	Material Managers' current activities may not significantly improve logistics support to the Air Force mission. MMs' actions are not directly governed by prioritized Air Force logistics requirements. Material Managers are tasked to support items within a stock class rather than items required to improve logistics support to the Air Force mission. MMs are provided limited training and their roles and responsibilities are not well defined. Additionally, MMs are not provided the automated tools necessary for clear visibility of assets in the pipeline. Automated tools would allow MMs to determine if a pipeline is populated and flowing corrective actions.
FINDING	Unclear Roles and Limited Tools and Training for Material Managers (MMs)
APPLICABI LITY	Wholesale
TITLE	Materiel Managers
NUMBER	3.3.5

Appendix C

			TCN		REC TO	P&D TO		
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J738MR81700104	2840014282576				9	19	9:45	22-Jun
J738JE81680040	4710003957083				21	19	9:46	22-Jun
J738MR81690031	4710014188290				8	14	9:46	22-Jun
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J738JE81680081	3120014318614				15	10	9:50	22-Jun
J738MR81630093	5306004328560				5	2	10:03	22-Jun
J738QB81610004	2835010289688							22-Jun

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J738MR81210072	10	19	1007	8-May-98	
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J738JE80840009	9	24	1004	8-May-98	
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J738JE80560128	7	27	1001	8-May-98	
J738JE81260179	24	34	1026	8-May-98	
J738MR81210070	8	3	1006	8-May-98	
J738MR81210071	8	3	1009	8-May-98	
J738JE81260157	10	37	1023	8-May-98	
J738MR81210071	7	54	1006	8-May-98	
J738JE81260031	11	43	1022	8-May-98	
J738QB80790053	6	21	1014	8-May-98	
J738JE81200110	10	40	1022	8-May-98	
J738MR81250101	4	57	1006	8-May-98	
J718FL81258496	7	16	1015	8-May-98	
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B738JE81190623	5	35	1155	8-May-98	
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J738MR81260137	2	30	1410	11-May-98	
J738MR81180027	3	30	1410	11-May-98	
J738JE81260122	9	5	925	12-May-98	
J738MR81250107	7	29	1211	12-May-98	
J738JE81330009	12	42	748		
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J738MR81310008	26	16	1004		<u> </u>
J738MR81270104	26	16	1004	13-May-98	
J738JE81270029	10		\		
J738JE81310072	10	16			
J738JE81310041	38				
J738JE81310088	37	19		· · · · · · · · · · · · · · · · · · ·	
J738JE81310078	38			·	
J738JE81310071	29				
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Tab B - Excluded Data Appendix C-1

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J738JE81100011	3	17	1058	13-May-98	
J738JE81310077	7	50	1110	14-May-98	
J738JE81310036	6	50	1110	14-May-98	
J738JE81310008	19	35	1125	14-May-98	
J738MR81260156	5	37	1123	14-May-98	
J738MR81260170	5	37	1123	14-May-98	
J738JE81310026	15	39	1121	14-May-98	
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J738MR81050059	13	33	1127	14-May-98	
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J713FL81340009	8	23	1007	15-May-98	
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J738JE81340004	13	12	1018		
J738MR81260170	3	24	836		
J738MR81260187	3	24	ļ	ļ	
J738JE81358106	8	25	952	19-May-98	
J738JE81200043	7	23	L	 	
J738JE81330174	6	22	955		
J738JE81320035	7	10	952		<u> </u>
J738JE81320043	7	10			
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J738MR80340027	7	3			
J738MR81380131	13		958	<u> </u>	
J738MR80510107	2	23	1		
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J738MR81380130	3	5.2	1425		Excluded missing data
J738MR81040121	5	25			
01301VINO 1040 121	5		1030	∠ 1-iviay-98	

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DOC#	REC TO P&D	P&D TO CUST	TIME	DATE	REASON
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J738MR81380137	6	15	1025	21-May-98	
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J738MR81390084	9	26	1021	21-May-98	
J738JE81200041	3	10	1045		Excluded missing data
J738MR81390163	5	16	1043	21-May-98	Excluded Hissing data
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J738MR81390165	5	16	1039	21-May-98	
J738MR81390160	5	22	1039	21-May-98	
J738MR81390164	5	22	1033		
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J738MR81380101	4	28	1039	21-May-98	
J738JE81380054	6	22	1027	21-May-98	
J738JE81390090	4	28	1033	21-May-98	
J738MR81390083		20		21-May-98	Evoluded mission date
J738JE81390113	3	22	1039 1033		Excluded missing data
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J738JE81358108	3	14	919		
				21-May-98	
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J738ES81400150	5	4.37	000	21-May-98	Excluded missing data
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		21		<u> </u>	
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Tab B - Excluded Data Appendix C-1

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J738JE81390113	3	14	1039	22-May-98				
J738MR81390083	4	28	1027	22-May-98				
J738JE81390090	6	18	1033	22-May-98	The second secon			
J738JE81380101	8	14	1039	22-May-98				
J738JE81380054	4	28	1027	22-May-98				
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J738MR81390067	8	18		22-May-98	\			
J738MR81400172	4	13		22-May-98				
J738JE81390091	10	7	938					
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J718FI581400029	3	1	910					
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J738MR81410082	2							
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Tab B - Excluded Data Appendix C-1

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J738MR81470089	10	16	1013	2-Jun-98	
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J738MR81490047	12	26	1018	2-Jun-98	
J738MR81480182	9	11	1003		
	11			2-Jun-98	
J738MR81190017	10	43	946	2-Jun-98	
J738MR81190017	9	39	950	2-Jun-98	
J738MR81480196	13	27	1002	2-Jun-98	
J738MR81190017	10	59	945	2-Jun-98	
J738MR80260028	10	42	947	2-Jun-98	
J738MR81190017	11	41	943	2-Jun-98	
J738MR81190017	11	29	950	2-Jun-98	
J738MR81190017			0.50		Excluded missing data
J738MR81190017	8	44	950	2-Jun-98	
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J738MR81490061	1	31	957	2-Jun-98	
J738MR81190017	15	34	956	2-Jun-98	
J738MR81480062	11	51	957	2-Jun-98	
J738MR81480191	11	39	950	2-Jun-98	
J738MR81470087	8	20	1009	2-Jun-98	
J738MR81190017	12	30	950	2-Jun-98	
J738MR81190017	11	30	950	2-Jun-98	
J738JE81480057	13	51	953	2-Jun-98	
J738JE81520010	7	11	1018	2-Jun-98	
J738JE81520010	13	37	952	2-Jun-98	
J738ES81328102					Excluded missing data
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J738MR72940101	12	2.41		2-Jun-98	
J738MR81490071	3			2-Jun-98	
J713FL81100071	3			2-Jun-98	
J738MR81490071	6	8		2-Jun-98	
J738JE81520061	7	21		3-Jun-98	
J738JE81520029	12	9		3-Jun-98	
J738JE81100034	3	32		3-Jun-98	
J738JE81200046	10	20			
J738MR81490046	2	57		3-Jun-98	
J738MR81490073	1	40	1033		
B738JE80370586	ļ				Excluded missing data
X738JE81493702					Excluded missing data
J738JE81480035	4	5			
J738MR81190017	8			<u> </u>	
J738MR81190017	8			4-Jun-98	
J738MR81260144	7	41			<u> </u>
J738MR81260144		34	<u> </u>		Excluded missing data
J738JE81520035	12	7	1023	4-Jun-98	

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J738JE81530029	14	15	1038	4-Jun-98	
J738JE81480093	9	46	1038	4-Jun-98	
J738JE81400044	4	51	1043	4-Jun-98	
J738ES80760015	4		1049		Excluded missing data
J738JE81530049	10	7	1043	4-Jun-98	Excluded missing data
J738JE81520054	10	6	1030	4-Jun-98	
J738MR81480182		19	1202	5-Jun-98	
J738MR81480182	6	18	1202	5-Jun-98	
J738MR81480182	3	13	1203	5-Jun-98	
J738MR81400034	3	13	1202		Excluded missing data
J738MR81400034					Excluded missing data Excluded missing data
J738MR81310022	16	2	934	8-Jun-98	excluded missing data
	14	10	934		
J738JE81540004	l	15		8-Jun-98	
J738MR81400098	15	13	1106	8-Jun-98	Evaluded missing data
J738MR81330054	40		0.25		Excluded missing data
J738J381520028	12	9		8-Jun-98 8-Jun-98	
	19				Evaluated mission data
	44		10:04		Excluded missing data
	11		9:18		Excluded missing data
	21		9:40		Excluded missing data
	18		5:40		Excluded missing data
	18		9:40		Excluded missing data
	18		9:40		Excluded missing data
	4.0		0.04		Excluded missing data
	10		9:24		Excluded missing data
D700 IF04004000		,	11:29		Excluded missing data
B738JE81261083	40		0.40		Excluded missing data
J738MR81460070	13	5		8-Jun	
J738JE81380026	6	13		8-Jun	L
J738MR81140015			9:15		Excluded missing data
B738JE81550244	31		11:01		Excluded missing data
B738JE71070248	42		11:02		Excluded missing data
J738JE81560055	- 00		9:15		Excluded missing data
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B738JE72810171	40		11:02		Excluded missing data
J738MR81590037	3			<u> </u>	
J872TC81350024	10		<u> </u>	15-Jun	
J738MR81590037	3				
J738JE81620009	18				L
J738MR81630044	3			· · · · · · · · · · · · · · · · · · ·	1
J738JE81590080	18				
J713FL81620042	14				
J738ES81678103	6		1.		<u> </u>
J738ES81678102	6				
J738MR81630076	8	 	1		
J738MR81630045	9				
J738MR81600026	9	<u> </u>			
J7383S81678104	1	31			Excluded missing data - ISU from stock
X718FL80970760			9:38	16-Jun	Excluded missing data

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J738JE81560009	9	13	10:06	17-Jun					
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J738JE81660061	5	8	10:12	17-Jun					
J738JE81358105	6	8	10:12	17-Jun					
J738JE81540030	6	13	10:12	17-3un					
J738MR81630070	13	16	10:03	17-Jun					
J738MR81630046	3	18	10:03	17-Jun					
	I	18	10:01						
J738MR81630078	4			17-Jun					
J738MR81630072	12	16	10:03	17-Jun					
J738MR81630047	11	16	10:03	17-Jun					
J738JE81550080	2	11	11:12	17-Jun					
J738MR81590013	6	20	9:39	17-Jun					
J738MR81630074	12	15	9:44	17-Jun					
J738MR81380030	7	15	9:44	17-Jun					
J738JE81660034	8	15	9:44	17-Jun					
J738JE81660003	5	13	10:31	18-Jun					
J738MR81670081		10	10:34		Excluded missing data				
J738MR81680005	2	10	11:20	18-Jun					
B738JE81461080	9	42	12:00	18-Jun					
B738JE81620366	6			18-Jun	Excluded missing data				
B738JE81550126	5	68	12:00	18-Jun					
J738JE81248103		2.4		18-Jun	Excluded missing data				
J738JE81248104		2.4		18-Jun	Excluded missing data				
B738JE81660688	17	13	9:57	19-Jun					
B738JE81660690	19	13	9:57	19-Jun					
B738JE81620161	17	13	9:57	19-Jun					
J738MR81670080	6	30	10:46	19-Jun					
J738MR81490074	7	30	10:46	19-Jun					
J738MR81460067	13	44	10:49	19-Jun					
J738MR81670079	24	21	10:44	19-Jun					
J738JE81670095	7	25	10:45	19-Jun					
J738M481630048	38	24	11:08	19-Jun					
J738MR81390079	12	30	11:00	19-Jun					
J738JE81680090	3		11:11	19-Jun					
J738JE81690013	13			19-Jun					
J738JE81680084	13		11:19	19-Jun	<u> </u>				
J738MR81310025	38								
J738MR81260144		~ ~ ~			Excluded missing data				
J738MR80260028	1	18	11:12	19-Jun					
J738JE81680121	6		11:03						
J738MR81600027	5	27	11:03						
J738SE81678110	13	1							
J738MR81670098	13	30	11.00		Excluded missing data				
J738MR81630066	4	23	11:07	19-Jun	ļ <u></u>				
J738MR81630067	4								
	38	1							
J738JE81670059									
J738MR81590012	39	23	11:07	19-Jun	<u> </u>				

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DOC#	REC TO P&D	P&D TO CUST	TIME	DATE	REASON				
J738MR81630093	17	23	11:07	19-Jun					
J738MR81630092	4	23	11:03	19-Jun					
J738MR81630068	12	23	11:07	19-Jun					
J738MR81630067	3	23	11:03	19-Jun					
J738MR81630066	9	23	11:07	19-Jun					
J738MR81630089	4	28	11:02	19-Jun					
J738MR81678107		30	12:30	19-Jun	Excluded missing data				
J738MR81670076		30	12:30	19-Jun	Excluded missing data				
J872TC80620164	1	20	14:42	19-Jun					
J738JE81130006	2	25	14:42	19-Jun					
J738MR81630077	5	14	9:16	22-Jun					
J738MR81380129	26	22	9:08	22-Jun					
		20	9:10	22-Jun	Excluded missing data				
		10	9:20	22-Jun	Excluded missing data				
J738JE81680082	1	13	9:17	22-Jun	·				
J738MR81590040	9	34	8:56	22-Jun					
		20	9:10	22-Jun	Excluded missing data				
J738JE81670091	21	19	9:11	22-Jun					
J738MR81330050	26	21	9:09	22-Jun					
		33	8:57	22-Jun	Excluded missing data				
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J738JE81680081	15	10	9:50	22-Jun					
J738QB81610004				22-Jun	Excluded missing data				
J738JE81680040	21	19	9:46	22-Jun					
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J738MR81678108	16	21	9:44	22-Jun					
J738MR81630091	11	22	9:38	22-Jun					
J738MR81630092	11	26	9:39	22-Jun					
J738MR81630093	7	24	9:36	22-Jun					
J738MR81690031	8	14	9:46	22-Jun					
J738MR81630090	11	20	9:40	22-Jun					
J738JE80610018	9	21	9:44	22-Jun					
J738JE81690032	8	19	9:46	1	1				
J738MR81700104	9	19	9:45						
J738MR81470093	6	20	8:45	22-Jun					

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DOC#	P&D	CUST	TIME	DATE	750 70 70 70	
J738JE81260034	11	22	1005	8-May-98	REC TO P&D	
J713FL81270047	9	24	1006	8-May-98		0.400050
J738MR81270098	4	25	1010	8-May-98	Mean	9.166253
J738MR81210072	10	19	1007	8-May-98	Standard Error	0.399883
J738JE81270032	4	22	1010	8-May-98	Median	7
J738JE80840009	9	24	1004	8-May-98	Mode	5
J738JE80770077	9	25	1003	8-May-98	Standard Deviation	8.027605
J738JE80560128	7	27	1001	8-May-98	Sample Variance	64.44244
J738JE81260179	24	34	1026	8-May-98	Kurtosis	8.648025
J738MR81210070	8	3	1006	8-May-98	Skewness	2.547424
J738MR81210071	8	3	1009	8-May-98	Range	56
J738JE81260157	10	37	1023	8-May-98	Minimum	1
J738MR81210071	7	54	1006	8-May-98	Maximum	57
J738JE81260031	11	43	1022	8-May-98	Sum	3694
J738QB80790053	6	21	1014	8-May-98	Count	403
J738JE81200110	10	40	1022	8-May-98	Confidence Level(95.0%)	0.786124
J738MR81250101	4	57	1006	8-May-98		
J718FL81258496	7	16	1015	8-May-98		
J738JE71188111	19	2.6	1036	8-May-98		
J738JE71188111	19	2.6	1036	8-May-98	P&D TO CUST	
B738JE81190623	5	35	1155	8-May-98	1 45 10 0001	
FB480081180042	57	!	1024	8-May-98	Mean	21.50647
FB480081780042 FB480081240050	56		1024	8-May-98	Standard Error	0.618053
J738M481260168	5		1411		Median	
	2	L	1411	11-May-98	Mode	20 19
J738MR81260137	3			11-May-98	Standard Deviation	
J738MR81180027			1410	11-May-98		12.39193
J738JE81260122	9	<u> </u>	925	12-May-98	Sample Variance	153.56
J738MR81250107		29		12-May-98	Kurtosis	0.246067
J738JE81330009	12		748	13-May-98	Skewness	0.622506
J738MR81320045	40		1136	13-May-98	Range	67
J738JE81270116	8		950	13-May-98	Minimum	1
J738JE81200047	6					68
J738JE81260160	9		953	13-May-98	<u> </u>	8645.6
J738MR81260180	9					402
J738MR81310008	26				l	1.215029
J738MR81270104	26					
J738JE81270029	10	1				
J738JE81310072	10					
J738JE81310041	38					
J738JE81310088	37	19	1116	13-May-98		
J738JE81310078	38	19	1116	13-May-98		
J738JE81310071	29			13-May-98		
B738JE81260016	2	2.45	1031	13-May-98		
J738MR81190080	4	10	1609	13-May-98		
J738MR81310023	2	20	1055			
J738MR81310011	3		 			
J738JE81100011	3					
J738JE81310077	7					
(0.000=0.0.00		50	, ,,,,	14-Iviay-30		

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J738JE81310008	19	35	1125	14-May-98	 	
J738MR81260156	5	37	1123	14-May-98	 	
J738MR81260170	5	37	1123	14-May-98		
J738JE81310026	15	39	1121	14-May-98		
J738MR81310017	8	50	1110	14-May-98		
J738MR81050059	13	33	1127	14 -M ay-98		
J738JE81190065	8	35	1125	14 -M ay-98		
J738MR81250107	24	29	1131	14-May-98		
J738JE81330171	12	12	1018	15-May-98		
J713FL81340009	8	23	1007	15-May-98		
J713FL81320117	13	23	1007	15-May-98		·
J738JE81340004	13	12	1018	15-May-98		
J738MR81260170	3	24	836	18-May-98		
J738MR81260187	3	24	836	18-May-98		
J738JE81358106	8	25	952	19-May-98		
J738JE81200043	7	23	954	19-May-98		
J738JE81330174	6	22	955	19-May-98	 	
J738JE81320035	7	10	952	20-May-98		
J738JE81320043	7	10	952	20-May-98		
J738MR81380126	2		941	20-May-98		
J738MR80340027	7	3	945	20-May-98		
J738MR81380131	13	22	958			
J738MR80510107	2	23	957	20-May-98		
J738MR80620086	8			20-May-98		
J738JE81380015	11			20-May-98	 	
B738JE81320669	6		1	20-May-98		
J738MR81350053	2		1430	20-May-98		
J738ES81400052	5	·	1425	20-May-98		
X738JE81403701	5		L		 - · · · · · · · · · · · · · · · · · · ·	
J738MR81040121	5					
J738JE81260142	4					
J738MR81400034	4	 			 	
J738MR81400034	3					
J738MR81400034	14					
J738MR81380128	6					
J738MR81380141	5			l	 	
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J738JE81390068	3					
J738MR81390084	9		 		 	
J738MR81390163	5	1	·			
J738MR81390160	5					
J738MR81390165	5					
J738MR81390160	5					
J738MR81390164	5					
J738MR81380101	8				 	
J738JE81380054	4					
J738JE81390090	6			<u> </u>		
J738MR81390083	4	 			 	
J738JE81390076	·					
11307001390010	4	22	1033	21-May-98		

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DOC#	P&D	CUST	TIME	DATE
J738MR80760135	2	28	1027	21-May-98
J738MR80970134	5	30	1027	21-May-98
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J738MR81300135	2	36	1209	21-May-98
J738MR81380142	1	35	1209	21-May-98
J738JE81170099	6	10	920	21-May-98
J738JE81000044	7	14	919	
	7			
J738MR81260134	L	13	920	21-May-98
J738JE81358108	3	14	919	
J738JE81340064	5	13	920	
X738JE81413704	5	4.37	853	
J738JE81390188	14	39	1012	22-May-98
J738MR80200086	29	21	1030	22-May-98
J738MR81400030	26	20	1029	22-May-98
J738JE81380070	11	28	1012	22-May-98
J738JE81260143	32	14	1031	
J738MR81406124	13	31	1012	22-May-98
J738MR81400170	8	33	1012	
J738JE81390051	2	26	1019	
J738MR81400138	32		1030	
		L		
J738JE81390046	19		1004	
J738JE81310076	28		1030	
J738MR80760135	2		1027	22-May-98
J738MR8070134	5		1027	22-May-98
J738JE81390076	4	<u> </u>	1033	22-May-98
J738JE81390113	3	14	1039	22-May-98
J738MR81390083	4	28	1027	22-May-98
J738JE81390090	6	18	1033	22-May-98
J738JE81380101	8	14	1039	
J738JE81380054	4		1027	
J738MR81390164	5		1033	
J738MR81390160	5		1033	
J738MR81390160	5		1039	<u> </u>
J738MR81390165	5		1039	
L				
J738MR81390163	5		1039	\
J738JE81200041	4		1045	·
J738MR81390084	9		1014	
J738JE81390068	3		1021	
J738MR81380141	5		1025	
J738MR81380137	6	15	1025	22-May-98
J738MR81380128	1	22	1018	22-May-98
J738MR81400034	14	26	1014	22-May-98
J738MR81400034	3	26	1014	<u> </u>
J738MR81400034	4		1015	
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J738MR81040121	5		1030	
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J872TC81398103	7			<u> </u>
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DOC#	REC TO P&D	P&D TO CUST	TIME	DATE	
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J738MR81410071	4	20	750	22-May-98	
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J738MR81390100	8	18	917	22-May-98	
J738MR81390067	8	18	917	22-May-98	
J738MR81400172	4	13	922	22-May-98	
J738JE81390091	10	7	938	26-May-98	
J738JE81400134	17	5	940	26-May-98	
J738JE81380017	8	11	929	26-May-98	
J738MR81400038	5	10	950	26-May-98	
J738JE81380119	3	9	931	26-May-98	
J718FI581400029	3	9	910	26-May-98	
J738MR81410072	3	27	1103	26-May-98	
J738MR81410074	4	25	1105	26-May-98	
J738MR81410073	5	25	1105	26-May-98	
J738MR81410084	2	40	1615	26-May-98	
J738MR81410085	2	40	1615	26-May-98	
J738MR81410075	4	35	1610	26-May-98	
J738MR81410082	2	40	1615	26-May-98	
J738MR81410083	2	40	1615	26-May-98	
J738JE81470006	13	3	757	27-May-98	
J738MR81400122	3	10	1005	27-May-98	
J738MR81260141	6	23	1020	27-May-98	
J715FL81400194	7	23	1020	27-May-98	
J738MR81410076	2	3	1127	27-May-98	
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J738JE81400090	14	36	1015	27-May-98	
J738MR81260166	12	31	1020	27-May-98	
J738JE81390032	10	30	1020	27-May-98	
J738JE81270036	10	26	1020	27-May-98	
J738JE81280026	10	25	1021	27-May-98	
J738MR81400126	13	36	1014	27-May-98	
J738JE80970078	15	34	1015	27-May-98	
B738JE71810253	3	2.24	1107	27-May-98	
B738JE81400021	2	2.27	1107	27-May-98	
B738JE81400560	1	2.31	1106		
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J738MR81390172	5		1015		
J738MR81390168	5		1015		
B738JE70340418	5		1015		
J738MR81460065	15				
J738MR81390165	10	<u> </u>	1018		<u></u>
J738MR81460076	15		1019		
J738JE81460012	18		1021		<u></u>
J738MR81390166	10		1018	28-May-98	
J738MR81460066	24	9	951	28-May-98	
J738MR81390171	18	9	951	28-May-98	
J738MR81460082	15	9	951	28-May-98	

	REC TO P&D	P&D TO			
DOC#	SC CONTRACTOR	CUST	TIME	DATE	
J738JE81480160	9	6	1509	28-May-98	
J738JE81480156	8	16	1504	28-May-98	
J738JE81480159	6	15	1501	28 -M ay-98	
J738JE81480154	9	16	1504	28-May-98	
J738JE81480158	7	15	1505	28-May-98	
J738MR81470068	2	30	958	28-May-98	
J738MR81460080	3	29	958	28-May-98	
J738MR81460079	4	22	958	28-May-98	
J738MR81460072	2	31	958	28-May-98	
J738JE81490023	24	32	958	28-May-98	
J738MR81460069	4	30	1139	29-May-98	
J738MR81390069	3	32	1038	29-May-98	
J713FL81460063	16	26	1045	29-May-98	
J738MR81470078	10	5	1019	29-May-98	
J738MR81400032	3	3	1015	29-May-98	
J738MR81390101	4	5	1015	29-May-98	
J738MR81460068	6	3	1017	29-May-98	
J738JE81470007	9	28	1040	29-May-98	
J738MR81470077	10	28	1042	29-May-98	
J738MR81460081	4	5	1015	29-May-98	
J738MR81410039	9	3	1015	29-May-98	
J738MR81470071	3	5	1015	29-May-98	
J738MR81400038	5	25	1035	29-May-98	
J738MR81470090	4	19	1042	29-May-98	
J738MR81470094	2	16	1036		
J715IS81498580	2	5	1035	29-May-98	
J715IS81498580	2	5	1035	29-May-98	
J738MR81040035	4	5	1058	29-May-98	
J738JE813300657	2	5	1057	29-May-98	
J738MR81380140	4	5	1058		
J738MR81410081	4	5	1057		
J738MR81410079	4				
B738JE81460645	2				
J738MR81190069	12		1048		
B738JE81260034	3	<u> </u>	1047		
B738JE73370640	16		1112		
J738JE81470084	10				
J738MR81480171	9		925		
J738MR81480145	4				
J738JE81470085	5		940		
J738JE81480127	5		929		
J738MR81460064	8		922		
J738MR81470069	11	43	1		
J738MR81470076	4	<u> </u>			
J715IS81498578	3		923		
J738MR81480176	7				
J738MR81470070	6		<u> </u>		
J738MR81460074	3		L		
J738MR81390075	10	17	923	1-Jun-98	

DOC#	REC TO P&D	P&D TO CUST	TIME	DATE	
J738MR81470088	4	. 41	916	1-Jun-98	
J738JE81520021	11	31	909	1-Jun-98	
J738JE81520023	9	28	912	1-Jun-98	
J738JE81520022	9	29	911	1-Jun-98	
J738JE81520026	6	27	913	1-Jun-98	
J738JE81520027	5	27	913	1-Jun-98	
J738MR81390082	7	10	930	1-Jun-98	
J738MR81490053	5	23	1027	1-Jun-98	
J738MR81410080	1	10	1439	1-Jun-98	
J738JE80420073	2	21	1525	1-Jun-98	
J738JE81520101	3	8	1525	1-Jun-98	
J738MR81480170	12	27	1002	2-Jun-98	
J738MR81480172	4	38	951	2-Jun-98	
J738MR81490064	14	23	1006	2-Jun-98	
J738MR81490063	13	41	1003	2-Jun-98	
J738MR81490057	9	11	1018	2-Jun-98	
J738MR81470091	5	37	952	2-Jun-98	
J738MR81480192	15	40	1004	2-Jun-98	
J738MR81190017	10	56	948	2-Jun-98	
J738MR81470089	10	16	1013	2-Jun-98	
J738MR81480179	9	11	1018	2-Jun-98	
J738MR81490047	12	26	1003	2-Jun-98	
J738MR81480182	9	11	1018	2-Jun-98	
J738MR81190017	10	43	946	2-Jun-98	
J738MR81190017	9	39	950	2-Jun-98	
J738MR81480196	13	27	1002	2-Jun-98	
J738MR81190017	10	59	945	2-Jun-98	
J738MR80260028	10	42	947	2-Jun-98	
J738MR81190017	11	41	943	2-Jun-98	
J738MR81190017	11	29	950	2-Jun-98	
J738MR81190017	8	44	950	2-Jun-98	
J738MR81190017	11	39	950	2-Jun-98	
J738MR81190017	10	44	950	2-Jun-98	
J738MR81490061	1	31	957	2-Jun-98	
J738MR81190017	15	34	956	2-Jun-98	
J738MR81480062	11	51	957	2-Jun-98	
J738MR81480191	11	39	950	2-Jun-98	
J738MR81470087	8	20	1009	2-Jun-98	
J738MR81190017	12	30	950	2-Jun-98	
J738MR81190017	11	30	950	2-Jun-98	
J738JE81480057	13	51	953	2-Jun-98	
J738JE81520010	7	11	1018	2-Jun-98	
J738JE81520010	13	37	952	2-Jun-98	
J738MR72940101	12	2.41	1107	2-Jun-98	
J738MR81490071	3	12	948	2-Jun-98	
J713FL81100071	3	10	949	2-Jun-98	
J738MR81490071	6	8	947	2-Jun-98	
J738JE81520061	7	21	1009	3-Jun-98	
J738JE81520029	12	9	1009	3-Jun-98	

	REC TO	P&D TO		
DOC#	P&D	CUST	TIME	DATE
J738JE81100034	3	32	956	3-Jun-98
J738JE81200046	10	20	1009	3-Jun-98
J738MR81490046	2	57	1027	3-Jun-98
J738MR81490073	1	40	1033	3-Jun-98
J738JE81480035	4	5	1610	3-Jun-98
J738MR81190017	8	39	950	4-Jun-98
J738MR81190017	8	38	951	4-Jun-98
J738MR81260144	7	41	948	
J738JE81520035	12	7	1023	4-Jun-98
J738JE81530029	14	15	1023	4-Jun-98
J738JE81480093				
	9	46	1043	4-Jun-98
J738JE81400044	4	51	1049	4-Jun-98
J738JE81530049	10	7	1030	4-Jun-98
J738JE81520054	10	6	1030	4-Jun-98
J738MR81480182	4	19	1202	5-Jun-98
J738MR81480182	6	18	1203	5-Jun-98
J738MR81480182	3	13	1202	5-Jun-98
J738MR81310022	16	2	934	8-Jun-98
J738JE81540004	14	10	935	8-Jun-98
J738MR81400098	15	15	1106	8-Jun-98
J738J381520028	12	l l	9:35	8-Jun-98
37303301320020	19		11:29	8-Jun-98
1700MD04460070				
J738MR81460070	13		9:10	L
J738JE81380026	6		9:02	8-Jun-98
B738JE81550244	31		11:01	
B738JE71070248	42		11:02	11-Jun-98
J738MR81590037	3		9:43	
J872TC81350024	10		9:31	
J738MR81590037	3		9:32	15-Jun-98
J738JE81620009	18	10	9:45	15-Jun-98
J738MR81630044	3	10	9:45	15-Jun-98
J738JE81590080	18	7	9:46	15-Jun-98
J713FL81620042	14		9:35	<u> </u>
J738ES81678103	6		12:45	
J738ES81678102	6		12:48	
J738MR81630076	8	i	11:18	L
J738MR81630045	9		11:12	
J738MR81600026	9		11:12	
J738MR81630049	5		9:57	
J738JE81560009	9		10:06	
J738JE81170061	5		10:12	
J738JE81660071	9		10:06	17-Jun-98
J738JE81660061	5	8	10:12	17-Jun-98
J738JE81358105	6	8	10:12	17-Jun-98
J738JE81540030	6	13	10:06	17-Jun-98
J738MR81630070	13	16	10:03	17-Jun-98
J738MR81630046	3			L
J738MR81630078	4			
J738MR81630072	12	16	10:03	17-Jun-98

DOC#	REC TO	P&D TO CUST	TIME	D		
3 7 2 2 7 5 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1	SAN TO STAN HELE STAN		10.191.35y. come 24.0000	DATE	 	
J738MR81630047	11	16	10:03	17-Jun-98		
J738JE81550080	2	11	11:12	17-Jun-98		
J738MR81590013	6	20	9:39	17-Jun-98		
J738MR81630074	12	15	9:44	17-Jun-98	 	
J738MR81380030	7	15	9:44	17-Jun-98		
J738JE81660034	8	15	9:44	17-Jun-98	 	
J738JE81660003	5	13	10:31	18-Jun-98		
J738MR81670081		10	10:34	18-Jun-98		
J738MR81680005	2	10	11:20	18-Jun-98		
B738JE81461080	9	l	12:00	18-Jun-98		
B738JE81550126	5		12:00	18-Jun-98	 	
B738JE81660688	. 17	13	9:57	19-Jun-98		
B738JE81660690	19	L	9:57	19-Jun-98		
B738JE81620161	17	13	9:57	19-Jun-98		
J738MR81670080	6		10:46	19-Jun-98		
J738MR81490074	7	30	10:46	19-Jun-98		
J738MR81460067	13	44	10:49	19-Jun-98		
J738MR81670079	24	21	10:44	19-Jun-98		
J738JE81670095	7	25	10:45	19-Jun-98		
J738M481630048	38	24	11:08	19-Jun-98		
J738MR81390079	12	30	11:00	19-Jun-98		
J738JE81680090	3	19	11:11	19-Jun-98		
J738JE81690013	13	10	11:20	19-Jun-98		
J738JE81680084	13	11	11:19	19-Jun-98		
J738MR81310025	38	24	11:06	19-Jun-98		
J738MR80260028	1	18	11:12	19-Jun-98		
J738JE81680121	6	27	11:03	19-Jun-98		
J738MR81600027	5	27	11:03	19-Jun-98		
J738SE81678110	13	30	11:00	19-Jun-98		
J738MR81630066	4	23	11:07	19-Jun-98		
J738MR81630067	4	23	11:07	19-Jun-98		
J738JE81670059	38		11:05	19-Jun-98		
J738MR81590012	39	23	11:07	19-Jun-98		
J738MR81630093	17	23	11:07	19-Jun-98		
J738MR81630092	4	23	11:03	19-Jun-98		
J738MR81630068	12	23	11:07	19-Jun-98		
J738MR81630067	3	23	11:03	19-Jun-98	 	
J738MR81630066	9			19-Jun-98		
J738MR81630089	4			19-Jun-98		
J872TC80620164	1	<u> </u>		19-Jun-98	 	
J738JE81130006	2			19-Jun-98		
J738MR81630077	5				 ,	
J738MR81380129	26		L			
J738JE81680082	1					
J738MR81590040	9			<u> </u>	 	
J738JE81670091	21	4				
J738MR81330050	26		<u> </u>		 	
J738MR81700093	4					
J738JE81680081	15		<u> </u>			
191303E01000001	10	y 10	9.50	22-Jun-98	 	

DOC#	REC TO P&D	P&D TO CUST	TIME	DATE		
J738JE81680040	21	19	9:46	22-Jun-98	 	
J738MR81630093	5	2	10:03	22-Jun-98		
J738MR81678108	16	21	9:44	22-Jun-98	 	
J738MR81630091	11	22	9:38	22-Jun-98		
J738MR81630092	11	26	9:39	22-Jun-98		
J738MR81630093	7	24	9:36	22-Jun-98	 	
J738MR81690031	8	14	9:46	22-Jun-98	 	
J738MR81630090	11	20	9:40	22-Jun-98	 	
J738JE80610018	9	21	9:44	22-Jun-98	 	
J738JE81690032	8	19	9:46	22-Jun-98	 	
J738MR81700104	9	19	9:45	22-Jun-98	 ·····	
J738MR81470093	6	20	8:45	22-Jun-98		

CODEL	DOC#	REC TO P&D	P&D TO CUST	TIME	DATE	Earliest Receipt	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
1	J738JE80560128	7	27	1001	8-May-98	1001	61		
2	J738JE80770077	9	25	1003	8-May-98				
3	J738JE80840009	9	24	1004	8-May-98				
4	J738JE81260034	11	22	1005	8-May-98				
5	J713FL81270047	9	24	1006	8-May-98				
6	J738MR81210070	8	3	1006	8-May-98				
7	J738MR81210071	7	54	1006	8-May-98				
8	J738MR81250101	4	57	1006	8-May-98				
9	J738MR81210072	10	19	1007	8-May-98				
10	J738MR81210071	8	3	1009	8-May-98				
11	J738MR81270098	4	25	1010	8-May-98				
12	J738JE81270032	4	22	1010	8-May-98	1			
13	J738QB80790053	6	21	1014	8-May-98				
14	J718FL81258496	7	16	1015	8-May-98				
15	J738JE81260031	11	43	1022	8-May-98			······································	<u> </u>
16	J738JE81200110	10	40	1022	8-May-98				
17	J738JE81260157	10	37	1023	8-May-98				
18	FB480081240050	56	1.54	1023	8-May-98				
19	FB480081180042	57	1.54	1024	8-May-98				<u> </u>
20	J738JE81260179	24	34	1026					
21	J738JE71188111	19	2.6	1036	8-May-98				
22	J738JE71188111	19	2.6	1036					
23	B738JE81190623	5	35	1155	8-May-98			1155	175
· · · · · · · · · · · · · · · · · · ·	TOTAL TIMES DAILY AVERAGE	314 13.65	539.28 23.45		COUNT*	23			

RECAPITULATION FOR 8 MAY

23 DELIVERIES* 30 TOTAL DELIVERIES (INCL EXCLUDED DATA)
13 MINUTES 39 SECONDS AVG FROM SBSS TO P&D
23 MINUTES 27 SECONDS AVG FROM P&D TO CUSTOMER
EARLIEST DELIVERY 61 MINUTES
LATEST DELIVERY 175 MINUTES

^{*} Delivery count does not include excluded data points

C O U N T	DOC#	REC TO P&D	P&D TO CUST	TIME	DATE	Earliest Receipt	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
24	J738MR81260137	2	30	1410	11-May-98	1410	310		
25	J738MR81180027	3	30	1410	11-May-98				
26	J738M481260168	5	26	1411	11-May-98			1411	311
	TOTAL TIMES DAILY AVERAGE	10 3.33	86 28.67		COUNT	3			

RECAPITULATION FOR 11 MAY

3 DELIVENIES* 3 TOTAL DELIVERIES (INCL EXCLUDED DATA)

3 MINUTES 23 SECONDS AVG FROM SBSS TO P&D

28 MINUTES 40 SECONDS AVG FROM P&D TO CUSTOMER

EARLIEST DELIVERY 310 MINUTES

LATEST DELIVERY 311 MINUTES

COUZE	DOC#	REC TO P&D	P&D TO CUST	TIME	DATE	100000000000000000000000000000000000000	Earliest Receipt (Minutes fr 9AM)		Latest Receipt (Minutes fr 9AM)
27	J738JE81260122	9	5	925	7-30-0	\$1000 CONTRACTOR \$100 P. \$100 P.	suitaviase in il saland	ing may and wholespecial control	ii vanij
28	J738MR81250107	7	29	1211				1211	191
	TOTAL TIMES DAILY AVERAGE	16 8	34 17		COUNT	2			

RECAPITULATION FOR 12 MAY

2 DELIVERIES*
2 TOTAL DELIVERIES (INCL EXCLUDED DATA)

8 MINUTES AVG FROM SBSS TO P&D

17 MINUTES AVG FROM P&D TO CUSTOMER

EARLIEST DELIVERY 25 MINUTES

LATEST DELIVERY 191 MINUTES

C O U N T	DOC #	REC TO	P&D TO CUST	TIME	DATE	Earliest Receipt	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
						‡ Exclude	d for earlies	st/latest con	nputation
						because it	could not	have arrived	d on
29	J738JE81330009	12	42	748	13 -M ay-98	FedEx true	ck THAT da		
30	J738JE81270116	8	30	950	13-May-98	950	50		
31	J738MR81260180	9	23	952	13-May-98				
32	J738JE81260160	9	22	953					
33	J738JE81200047	6	30	955	13-May-98				
34	J738MR81310008	26	16	1004	13-May-98				
35	J738MR81270104	26	16	1004					
36	B738JE81260016	2	2.45	1031	13-May-98		_		
37	J738MR81310023	2	20	1055	13-May-98				
38	J738MR81310011	3	20	1055	13-May-98				
39	J738JE81100011	3	17	1058	13-May-98				
40	J738JE81270029	10	16	1104	13-May-98				
41	J738JE81310072	10	16	1104	13-May-98				
42	J738JE81310041	38	19	1116	13-May-98				
43	J738JE81310088	37	19	1116	13-May-98				
44	J738JE81310078	38	19	1116	13-May-98				
45	J738JE81310071	29	19	1116	13-May-98				
46	J738MR81320045	40	9	1136	13-May-98				
47	J738MR81190080	4	10	1609	13-May-98			1609	429
	TOTAL TIMES DAILY AVERAGE	312 16.421053	365.45 19.234211		COUNT	19			

RECAPITULATION FOR 13 MAY

19 DELIVERIES* 20 TOTAL DELIVERIES (INCL EXCLUDED DATA)

16 MINUTES 25 SECONDS AVG FROM SBSS TO P&D

19 MINUTES 14 SECONDS AVG FROM P&D TO CUSTOMER

EARLIEST DELIVERY 50 MINUTES

LATEST DELIVERY 429 MINUTES

C O U N T	DOC#	REC TO P&D	P&D TO CUST	TIME	DATE	Earliest Receipt	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
48	J738JE81310077	7	50	1110	14-May-98	1110	130		
49	J738JE81310036	6	50	1110	14-May-98				
50	J738MR81310017	8	50	1110	14-May-98				
51	J738JE81310026	15	39	1121	14-May-98				
52	J738MR81260156	5	37	1123	14-May-98				
53	J738MR81260170	5	37	1123	14-May-98				
54	J738JE81310008	19	35	1125	14-May-98				
55	J738JE81190065	8	35	1125	14-May-98				
56	J738MR81050059	13	33	1127	14-May-98				
57	J738MR81250107	24	29	1131	14-May-98			1131	151
	TOTAL TIMES DAILY AVERAGE	110 11	395 39.5	C1000000000000000000000000000000000000	COUNT	10			

RECAPITULATION FOR 14 MAY

10 DELIVERIES*

18 TOTAL DELIVERIES (INCL EXCLUDED DATA)

11 MINUTES AVG FROM SBSS TO P&D

39 MINUTES 30 SECONDS AVG FROM P&D TO CUSTOMER

EARLIEST DELIVERY 130 MINUTES

LATEST DELIVERY 151 MINUTES

C O U N T	DOC#	REC TO	P&D TO CUST	TIME	DATE	Earliest Receipt	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
58	J713FL81340009	8	23	1007	15-May-98	1007	67		
59	J713FL81320117	13	23	1007	15-May-98				
60	J738JE81330171	12	12	1018	15-May-98				
61	J738JE81340004	13	12	1018	15-May-98			1018	78
	TOTAL TIMES DAILY AVERAGE	46 11.5	70 17.5		COUNT	4	- · · · · · · · · · · · · · · · · · · ·		

RECAPITULATION FOR 15 MAY

4 DELIVERIES*

4 TOTAL DELIVERIES (INCL EXCLUDED DATA)

11 MINUTES 30 SECONDS AVG FROM SBSS TO P&D

17 MINUTES 30 SECONDS AVG FROM P&D TO CUSTOMER

EARLIEST DELIVERY 67 MINUTES

LATEST DELIVERY 78 MINUTES

COUNT	DOC#	REC TO P&D	P&D TO CUST	TIME	DATE	 Kusooni kassauttaan arangeen een 	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
62	J738MR81260170	3	24	836	18-May-98	‡			
63	J738MR81260187	3	24	836	18-May-98				
	TOTAL TIMES DAILY AVERAGE	6 3	48 24		COUNT	2			

RECAPITULATION FOR 18 MAY

2 DELIVERIES* 2 TOTAL DELIVERIES (INCL EXCLUDED DATA)

3 MINUTES AVG FROM SBSS TO P&D

24 MINUTES AVG FROM P&D TO CUSTOMER

EARLIEST DELIVERY NOT COMPUTED

LATEST DELIVERY NOT COMPUTED

COUNT	manus 25. 25. 25. 25. 25. 25. 25. 25. 25. 25.	REC TO P&D	P&D TO CUST	TIME	DATE		Earliest Receipt (Minutes fr 9AM)		Latest Receipt (Minutes fr 9AM)
64	J738JE81358106	8	25	952	19-May-98	952	52		
65	J738JE81200043	7	23	954	19-May-98				
66	J738JE81330174	6	22	955	19-May-98			955	55
	TOTAL TIMES DAILY AVERAGE	21 7	70 23.33		COUNT	3			

RECAPITULATION FOR 19 MAY

3 DELIVERIES* 3 TOTAL DELIVERIES (INCL EXCLUDED DATA)

7 MINUTES AVG FROM SBSS TO P&D

23 MINUTES 20 SECONDS AVG FROM P&D TO CUSTOMER

EARLIEST DELIVERY 52 MINUTES

LATEST DELIVERY 55 MINUTES

P &D Logbook Preliminary Analysis

COUNT	DOC#	REC TO P&D	P&D TO CUST	TIME	DATE	Earliest Receipt	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
67	J738MR81380126	2	8	941	20-May-98	941	41		
68	J738MR80340027	7	3	945	20-May-98				
69	J738JE81320035	7	10	952	20-May-98				
70	J738JE81320043	7	10	952	20-May-98				
71	J738MR80510107	2	23	957	20-May-98				
72	J738JE81380015	11	33	957	20-May-98				
73	J738MR81380131	13	22	958	20-May-98				
74	J738MR80620086	8	28	1002	20-May-98				
75	B738JE81320669	6	4.25	1034	20-May-98				
76	J738ES81400052	5	5.32	1425	20-May-98				
77	X738JE81403701	5	5.2	1425	20-May-98				
78	J738MR81350053	2	24	1430				1430	330
	TOTAL TIMES DAILY AVERAGE	75 6,25	175.77 14.65	*	COUNT	12			<u> </u>

RECAPITULATION FOR 20 MAY

12 DELIVERIES*

14 TOTAL DELIVERIES (INCL EXCLUDED DATA)

6 MINUTES 15 SECONDS AVG FROM SBSS TO P&D

14 MINUTES 39 SECONDS AVG FROM P&D TO CUSTOMER

EARLIEST DELIVERY 41 MINUTES

LATEST DELIVERY 330 MINUTES

C O U N T	annes	REC TO	P&D TO CUST	TIME	DATE	Earliest Receipt	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
79	X738JE81413704	5	4.37	853	21-May-98	‡			
80	J738JE81000044	7	14	919	21-May-98				
81	J738JE81358108	3	14	919	21-May-98	919	19		
82	J738JE81170099	6	10	920	21-May-98				
83	J738MR81260134	7	13	920	21-May-98				
84	J738JE81340064	5	13	920	21-May-98				
85	J738MR81400034	3	26	1014	21-May-98				
86	J738MR81400034	14	26	1014	21-May-98				
87	J738MR81390084	9	26	1014	21-May-98				
88	J738MR81400034	4	25	1015	21-May-98				
89	J738JE81390068	3	19	1021	21-May-98				
90	J738MR81380128	6	16	1024	21-May-98				
91	J738MR81380141	5	15	1025	21-May-98				
92	J738MR81380137	6	15	1025	21-May-98				
93	J738JE81380054	4	28	1027	21-May-98				
94	J738MR81390083	4	28	1027	21-May-98				
95	J738MR80760135	2	28	1027	21-May-98				
96	J738MR80970134	5	30	1027	21-May-98				
97	J738MR81040121	5	25	1030	21-May-98				
98	J738MR81390160	5	22	1033	21-May-98			, , , , , , , , , , , , , , , , , , , ,	
99	J738MR81390164	5	22	1033	21-May-98		<u> </u>		
100	J738JE81390090	6	22	1033	21-May-98				
101	J738JE81390076	4	22	1033	21-May-98				
102	J738MR81390163	5	16	1039	21-May-98				
103	J738MR81390160	5	16	1039	21-May-98				
104	J738MR81390165	5	16	1039	21-May-98				
105	J738MR81380101	8	16	1039	21-May-98		T .		
106	J738JE81260142	4	10	1045	21-May-98				
107	J738MR81400034	2	21	1159	21-May-98		1		
108	J738MR81300135	2	36	1209	21-May-98				
109	J738MR81380142	1	35	1209	21-May-98			1209	189
•	TOTAL TIMES DAILY AVERAGE	155 5.00	629.37 20.30		COUNT	31			

RECAPITULATION FOR 21 MAY
31 DELIVERIES* 35 TOTAL DELIVERIES (INCL EXCLUDED DATA)
5 MINUTES AVG FROM SBSS TO P&D
20 MINUTES 18 SECONDS AVG FROM P&D TO CUSTOMER
EARLIEST DELIVERY 19 MINUTES
LATEST DELIVERY 189 MINUTES

C O U N T	DOC#	REC TO P&D	P&D.TO CUST	TIME	DATE	Earliest Receipt	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
110	J738MR81380149	4	20	750	22-May-98	‡			
111	J738MR81410071	4	20	750	22-May-98				
112	J738MR81410070	4	20	750	22-May-98				
113	J738MR81390100	8	18	917	22-May-98				
114	J738MR81390067	8	18	917	22-May-98				
115	J738MR81400172	4	13	922	22-May-98	922	22		
116	B738JE81400173	5	2.11	950	22-May-98				
117	J872TC81398103	7	4.35	950	22-May-98				
118	J738JE81390046	19	40	1004	22-May-98				
119	J738JE81390188	14	39	1012	22-May-98				
120	J738JE81380070	11	28	1012	22-May-98				
121	J738MR81406124	13	31	1012	22-May-98				
122	J738MR81400170	8	33	1012	22-May-98				
123	J738MR81390084	9	26	1014	22-May-98				
124	J738MR81400034	14	26	1014	22-May-98				
125	J738MR81400034	3	26	1014	22-May-98				
126	J738MR81400034	4	25	1015	22-May-98				
127	J738MR81380128	1	22	1018	22-May-98				
128	J738JE81390051	2	26	1019	22-May-98				
129	J738JE81390068	3	39	1021	22-May-98				
130	J738MR81380141	5	15	1025	22-May-98				
131	J738MR81380137	6	15	1025	22-May-98				
132	J738MR80760135	2	28	1027	22-May-98				
133	J738MR8070134	5	22	1027	22-May-98				
134	J738MR81390083	4	28	1027	22-May-98				
135	J738JE81380054	4	28	1027	22-May-98				
136	J738MR81400030	26	20	1029	22-May-98				
137	J738MR80200086	29	21	1030	22-May-98				
138	J738MR81400138	32	15	1030	22-May-98				
139	J738JE81310076	28	15	1030	22-May-98				
140	J738MR81040121	5	25	1030					
141	J738JE81260143	32	14	1031	22-May-98				
142	J738JE81390076	4	18	1033	22-May-98				
143	J738JE81390090	6							
144	J738MR81390164	5							
145	J738MR81390160	5							
146	J738JE81390113	3		1039					
147	J738JE81380101	8							
148	J738MR81390160	5							
149	J738MR81390165	5							
150	J738MR81390163	5	18						
151	J738JE81200041	4							
152	J738JE81260142	4							
153	X719ST81288553	3			<u> </u>			1350	290
	TOTAL TIMES DAILY AVERAGE	380 8.64		\$365.500 CF 1.9655 SA-24600 SE	COUNT	44			

RECAPITULATION FOR 22 MAY

44 DELIVERIES*

49 TOTAL DELIVERIES (INCL EXCLUDED DATA)

8 MINUTES 38 SECONDS AVG FROM SBSS TO P&D

20 MINUTES 24 SECONDS AVG FROM P&D TO CUSTOMER

EARLIEST DELIVERY 22 MINUTES

LATEST DELIVERY 290 MINUTES

P &D Logbook Preliminary Analysis

COUNT	DOC#	REC TO P&D	P&D TO CUST	TIME	DATE	Earliest Receipt	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
154	J738JE81390091	10	7	938	26-May-98	938	38		
155	J738JE81400134	17	5	940	26-May-98		, ,		
156	J738JE81380017	8	11	929	26-May-98				
157	J738MR81400038	5	10	950	26-May-98				
158	J738JE81380119	3	9	931	26-May-98				
159	J718FI581400029	3	9	910	26-May-98				
160	J738MR81410072	3	27	1103	26-May-98				
161	J738MR81410074	4	25	1105	26-May-98				
162	J738MR81410073	5	25	1105	26-May-98				
163	J738MR81410084	2	40	1615	26-May-98				
164	J738MR81410085	2	40	1615	26-May-98				
165	J738MR81410075	4	35	1610	26-May-98				
166	J738MR81410082	2	40	1615					
167	J738MR81410083	2	40	1615	26-May-98			1615	435
t	TOTAL TIMES DAILY AVERAGE	70 5.00	323 23.07		COUNT	14			

RECAPITULATION FOR 26 MAY

14 DELIVERIES*

16 TOTAL DELIVERIES (INCL EXCLUDED DATA)

5 MINUTES AVG FROM SBSS TO P&D

23 MINUTES 4 SECONDS AVG FROM P&D TO CUSTOMER

EARLIEST DELIVERY 38 MINUTES

LATEST DELIVERY 435 MINUTES

C O U N		REC TO	P&D TO			Earliest	Earliest Receipt (Minutes	Last	Latest Receipt (Minutes
T	DOC#	P&D	CUST	TIME	DATE	Receipt	fr 9AM)	Receipt	fr 9AM)
168	J738JE81470006	13	3	757	27-May-98				
169	J738MR81400122	3	10	1005	27-May-98	1005	65		
170	J738MR81260141	6	23	1020	27-May-98				
171	J715FL81400194	7	23	1020	27-May-98				
172	J738MR81410076	2	3	1127	27-May-98				
173	J718FI51428578	18	37	1015	27-May-98				
174	J738JE81400090	14	36	1015	27-May-98				
175	J738MR81260166	12	31	1020	27-May-98				
176	J738JE81390032	10	30	1020	27-May-98				
177	J738JE81270036	10	26	1020	27-May-98				
178	J738JE81280026	10	25	1021	27-May-98				
179	J738MR81400126	13	36	1014	27-May-98				
180	J738JE80970078	15	34	1015	27-May-98				
181	B738JE71810253	3	2.24	1107	27-May-98				
182	B738JE81400021	2	2.27	1107	27-May-98				
183	B738JE81400560	1	2.31	1106				1106	126
	TOTAL TIMES	139	323.82		COUNT*	16			
	DAILY AVERAGE	8.69	20.24						

RECAPITULATION FOR 27 MAY

16 DELIVERIES* 16 TOTAL DELIVERIES (INCL EXCLUDED DATA)

8 MINUTES 41 SECONDS AVG FROM SBSS TO P&D

20 MINUTES 14 SECONDS AVG FROM P&D TO CUSTOMER

EARLIEST DELIVERY 65 MINUTES

LATEST DELIVERY 126 MINUTES

Tab D - Pre-Analysis Appendix C-1

COUNT	DOC#	REC TO. P&D	P&D TO CUST	TIME	DATE	Earliest Receipt	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
184	J738MR81460066	24	9	951	28-May-98	951	51		
185	J738MR81390171	18	9	951	28-May-98				
186	J738MR81460082	15	9	951	28-May-98				
187	J738MR81470068	2	30	958	28-May-98				
188	J738MR81460080	3	29	958	28-May-98				
189	J738MR81460079	4	22	958	28-May-98				
190	J738MR81460072	2	31	958	28-May-98				
191	J738JE81490023	24	32	958	28-May-98				
192	J738MR81390169	5	19	1015	28-May-98				
193	J738MR81390170	5	19	1015	28-May-98				
194	J738MR81390172	5	19	1015	28-May-98				
195	J738MR81390168	5	19	1015	28-May-98				
196	B738JE70340418	5	19	1015	28-May-98				
197	J738MR81390165	10	22	1018	28-May-98		"		
198	J738MR81390166	10	22	1018	28-May-98				
199	J738MR81460076	15	21	1019	28-May-98				
200	J738MR81460065	15	20	1020	28-May-98				
201	J738JE81460012	18	19	1021	28-May-98				
202	J738JE81480159	6	15	1501	28-May-98				
203	J738JE81480156	8	16	1504	28-May-98				
204	J738JE81480154	9	16	1504	28-May-98				
205	J738JE81480158	7	15	1505					
206	J738JE81480160	9	6	1509	28-May-98			1509	369
	TOTAL TIMES DAILY AVERAGE	224 9.74	438 19.04		COUNT	23			

RECAPITULATION FOR 28 MAY

23 DELIVERIES*

23 TOTAL DELIVERIES (INCL EXCLUDED DATA)

9 MINUTES 44 SECONDS AVG FROM SBSS TO P&D

19 MINUTES 2 SECONDS AVG FROM P&D TO CUSTOMER

EARLIEST DELIVERY 51 MINUTES

LATEST DELIVERY 369 MINUTES

P &D Logbook Preliminary Analysis

C O U N T	DOC#	REC TO	P&D TO CUST	TIME	DATE	Earliest Receipt	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
207	J738MR81400032	3	3	1015	29-May-98	1015	75	30.000 W 200.00.000 W.	M 10 1 4 M 11 11 11 11 11 11 11 11 11 11 11 11 1
208	J738MR81390101	4	5	1015	29-May-98				
209	J738MR81460081	4	5	1015	29-May-98				
210	J738MR81410039	9	3	1015	29-May-98				
211	J738MR81470071	3	5	1015	29-May-98				
212	J738MR81460068	6	3	1017	29-May-98				
213	J738MR81470078	10	5	1019	29-May-98			***************************************	
214	J738MR81400038	5	25	1035	29-May-98				
215	J715IS81498580	2	5	1035	29-May-98				
216	J715IS81498580	2	5	1035	29-May-98				
217	J738MR81470094	2	16	1036	29-May-98				
218	J738MR81390069	3	32	1038	29-May-98				
219	J738JE81470007	9	28	1040	29-May-98				
220	J738MR81470077	10	28	1042	29-May-98				
221	J738MR81470090	4	19	1042	29-May-98		,		
222	J713FL81460063	16	26	1045	29-May-98				
223	B738JE81260034	3	3.27	1047	29-May-98				
224	J738MR81190069	12	3.2	1048	29-May-98				
225	J738JE813300657	2	5	1057	29-May-98				
226	J738MR81410081	4	5	1057	29-May-98				
227	J738MR81040035	4	5	1058	29-May-98				
228	J738MR81380140	4	5	1058	29-May-98	,			
229	J738MR81410079	4	5	1058	29-May-98				
230	B738JE81460645	2	3.04	1104	29-May-98				
231	B738JE73370640	16	2.48	1112	29-May-98				
232	J738MR81460069	4	30	1139	29-May-98			1139	159
	TOTAL TIMES DAILY AVERAGE	147 5.65	279.99 10.77		COUNT	26			•

RECAPITULATION FOR 29 MAY

26 DELIVERIES* 29 TOTAL DELIVERIES (INCL EXCLUDED DATA)
5 MINUTES 39 SECONDS AVG FROM SBSS TO P&D
10 MINUTES 46 SECONDS AVG FROM P&D TO CUSTOMER
EARLIEST DELIVERY 75 MINUTES
LATEST DELIVERY 159 MINUTES

C O J Z T	DOC#	REC TO P&D	P&D TO CUST	TIME	DATE	Earliest Receipt	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
233	J738JE81520021	11	31	909	1-Jun-98	‡			
234	J738JE81520022	9	29	911	1-Jun-98				
235	J738JE81520023	9	28	912	1-Jun-98				
236	J738JE81520026	6	27	913	1-Jun-98				
237	J738JE81520027	5	27	913	1-Jun-98				
238	J738MR81470076	4	48	914	1-Jun-98				
239	J738MR81470088	4	41	916	1-Jun-98				
240	J738MR81470070	6	42	917	1-Jun-98				
241	J738MR81480145	4	44	920	1-Jun-98				
242	J738MR81460064	8	47	922	1-Jun-98				
243	J738MR81480176	7	18	922	1-Jun-98				
244	J738MR81470069	11	43	923	1-Jun-98				
245	J715IS81498578	3	17	923	1-Jun-98	923	23		
246	J738MR81460074	3	17	923	1-Jun-98				
247	J738MR81390075	10	17	923	1-Jun-98				
248	J738MR81480171	9	46	925	1-Jun-98			,	
249	J738JE81480127	5	42	929	1-Jun-98			-	
250	J738MR81390082	7	10	930	1-Jun-98				
251	J738JE81470085	5	37	940	1-Jun-98				
252	J738JE81470084	10	16	1003	1-Jun-98				
253	J738MR81490053	5	23	1027	1-Jun-98				
254	J738MR81410080	1	10	1439	1-Jun-98				
255	J738JE80420073	2	21	1525	1-Jun-98				
256	J738JE81520101	3	8	1525	1-Jun-98			1525	385
	TOTAL TIMES DAILY AVERAGE	147 6.13	689 28.71		COUNT	24			

RECAPITULATION FOR 1 JUNE

24 DELIVERIES*

24 TOTAL DELIVERIES (INCL EXCLUDED DATA)

6 MINUTES 8 SECONDS AVG FROM SBSS TO P&D

28 MINUTES 43 SECONDS AVG FROM P&D TO CUSTOMER

EARLIEST DELIVERY 23 MINUTES

LATEST DELIVERY 385 MINUTES

C O U N	DOC#	REC TO P&D	P&D TO CUST	TIME	DATE	Earliest Receipt	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
257	J738MR81190017	11	41	943	2-Jun-98	‡			
258	J738MR81190017	10	59	945	2-Jun-98				
259	J738MR81190017	10	43	946	2-Jun-98				
260	J738MR80260028	10	42	947	2-Jun-98				
261	J738MR81490071	6	8	947	2-Jun-98	947	47		
262	J738MR81190017	10	56	948	2-Jun-98				
263	J738MR81490071	3	12	948	2-Jun-98				
264	J713FL81100071	3	10	949	2-Jun-98				
265	J738MR81190017	9	39	950	2-Jun-98				
266	J738MR81190017	11	29	950	2-Jun-98				
267	J738MR81190017	8	44	950	2-Jun-98				
268	J738MR81190017	11	39	950	2-Jun-98				
269	J738MR81190017	10	44	950	2-Jun-98				
270	J738MR81480191	11	39	950	2-Jun-98				
271	J738MR81190017	12	30	950	2-Jun-98				
272	J738MR81190017	11	30	950	2-Jun-98				
273	J738MR81480172	4	38	951	2-Jun-98				
274	J738MR81470091	5	37	952	2-Jun-98				
275	J738JE81520010	13	37	952	2-Jun-98				
276	J738JE81480057	13	51	953	2-Jun-98				
277	J738MR81190017	15	34	956	2-Jun-98				
278	J738MR81490061	1	31	957	2-Jun-98				
279	J738MR81480062	11	51	957	2-Jun-98				
280	J738MR81480170	12	27	1002	2-Jun-98				
281	J738MR81480196	13	27	1002	2-Jun-98				
282	J738MR81490063	13	41	1003	2-Jun-98				
283	J738MR81490047	12	26	1003	2-Jun-98				
284	J738MR81480192	15	40	1004	2-Jun-98				
285	J738MR81490064	14	23	1006	2-Jun-98				
286	J738MR81470087	8	20	1009	2-Jun-98				1
287	J738MR81470089	10	16	1013	2-Jun-98				
288	J738MR81490057	9	11	1018	2-Jun-98				
289	J738MR81480179	9	11	1018	2-Jun-98				
290	J738MR81480182	9	11	1018	2-Jun-98				
291	J738JE81520010	7	11	1018					
292	J738MR72940101	12	2.41	1107	2-Jun-98			1107	127
	TOTAL TIMES DAILY AVERAGE	351 9.75	1110.41 30.84		COUNT	36			

RECAPITULATION FOR 2 JUNE
36 DELIVERIES* 40 TOTAL DELIVERIES (INCL EXCLUDED DATA)
9 MINUTES 45 SECONDS AVG FROM SBSS TO P&D
30 MINUTES 50 SECONDS AVG FROM P&D TO CUSTOMER
EARLIEST DELIVERY 47 MINUTES
LATEST DELIVERY 127 MINUTES

P &D Logbook Preliminary Analysis

COUNT	DOC#	REC TO P&D	P&D TO CUST	TIME	DATE	Earliest Receipt	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
293	J738JE81100034	3	32	956	3-Jun-98	956	56		
294	J738JE81520061	7	21	1009	3-Jun-98				
295	J738JE81520029	12	9	1009	3-Jun-98				
296	J738JE81200046	10	20	1009	3-Jun-98				
297	J738MR81490046	2	57	1027	3-Jun-98				
298	J738MR81490073	1	40	1033	3-Jun-98				
299	J738JE81480035	4	5	1610	3-Jun-98			1610	430
	TOTAL TIMES DAILY AVERAGE	39 5.57	184 26.29		COUNT	7			

RECAPITULATION FOR 3 JUNE
7 DELIVERIES* 9 TOTAL DELIVERIES (INCL EXCLUDED DATA)
5 MINUTES 34 SECONDS AVG FROM SBSS TO P&D
26 MINUTES 17 SECONDS AVG FROM P&D TO CUSTOMER
EARLIEST DELIVERY 56 MINUTES
LATEST DELIVERY 430 MINUTES

C O U N T	DOC#	REC TO	P&D TO CUST	TIME	DATE	Earliest Receipt	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
300	J738MR81260144	7	41	948	4-Jun-98	948	48		
301	J738MR81190017	8	39	950	4-Jun-98				
302	J738MR81190017	8	38	951	4-Jun-98				
303	J738JE81520035	12	7	1023	4-Jun-98				
304	J738JE81530049	10	7	1030	4-Jun-98				
305	J738JE81520054	10	6	1030	4-Jun-98				
306	J738JE81530029	14	15	1038	4-Jun-98				
307	J738JE81480093	9	46	1043	4-Jun-98				
308	J738JE81400044	4	51	1049	4-Jun-98			1049	109
	TOTAL TIMES DAILY AVERAGE	82 9.11	250 27.78		COUNT	9			

RECAPITULATION FOR 4 JUNE

9 DELIVERIES* 11 TOTAL DELIVERIES (INCL EXCLUDED DATA)

9 MINUTES 7 SECONDS AVG FROM SBSS TO P&D

27 MINUTES 47 SECONDS AVG FROM P&D TO CUSTOMER

EARLIEST DELIVERY 48 MINUTES

LATEST DELIVERY 109 MINUTES

COUNT	DOC#	REC TO	P&D TO CUST	TIME	DATE	Earliest Receipt	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
309	J738MR81480182	4	19	1202	5-Jun-98	1202	182		
310	J738MR81480182	3	13	1202	5-Jun-98				
311	J738MR81480182	6	18	1203	5-Jun-98			1203	183
	TOTAL TIMES DAILY AVERAGE	13 4.33	50 16.67		COUNT	3			

RECAPITULATION FOR 5 JUNE

3 DELIVERIES* 3 TOTAL DELIVERIES (INCL EXCLUDED DATA)

4 MINUTES 20 SECONDS AVG FROM SBSS TO P&D

16 MINUTES 40 SECONDS AVG FROM P&D TO CUSTOMER

EARLIEST DELIVERY 182 MINUTES

LATEST DELIVERY 183 MINUTES

C O U N T	DOC#	REC TO P&D	P&DTO CUST	TIME	DATE	Earliest Receipt	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
312	J738JE81380026	6	13	902	8-Jun-98	‡			
313	J738MR81460070	13	5	910	8-Jun-98				
314	J738MR81310022	16	2	934	8-Jun-98	934	34		
315	J738J381520028	12	9	935	8-Jun-98				
316	J738JE81540004	14	10	935	8-Jun-98				
317	J738MR81400098	15	15	1106	8-Jun-98				
318		19	1	1129	8-Jun-98			1129	149
	TOTAL TIMES DAILY AVERAGE	95 13.57	55 7.86		COUNT	7			

RECAPITULATION FOR 8 JUNE

7 DELIVERIES* 20 TOTAL DELIVERIES (INCL EXCLUDED DATA)

13 MINUTES 34 SECONDS AVG FROM SBSS TO P&D**

7 MINUTES 52 SECONDS AVG FROM P&D TO CUSTOMER

EARLIEST DELIVERY 34 MINUTES

LATEST DELIVERY 149 MINUTES

** if excluded data points with times for SBSS to P&D were included the average time would be 14.69 minutes

C O U	REC TO	PSBTO		\$100 (TN) (CR07446)	Earliest Receipt	Latest Receipt
N T DOC#	P&D	CUST	TIME	Earliest Receipt		(Minutes fr 9AM)

All data points for 11 Jun 98 excluded on the basis of incomplete data

RECAPITULATION FOR 11 JUNE

10 DELIVERIES* 6.TOTAL DELIVERIES (INCL EXCLUDED DATA)

35 MINUTES 45 SECONDS AVG FROM SBSS TO P&D***

MISSING DATA PREVENTS COMPUTING AVG FROM P&D TO CUSTOMER

EARLIEST DELIVERY 15 MINUTES***

LATEST DELIVERY 122 MINUTES***

*** Computed from data contained in the excluded data points

C O U N T	DOC#	REC TO P&D	P&D TO CUST	TIME	DATE	Earliest Receipt	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
321	J872TC81350024	10	24	9:31	15-Jun-98				
322	J738MR81590037	3	13	9:32	15-Jun-98	932	32		
323	J713FL81620042	14	20	9:35	15-Jun-98				
324	J738MR81590037	3	12	9:43	15-Jun-98				
325	J738JE81620009	18	10	9:45	15-Jun-98				
326	J738MR81630044	3	10	9:45	15-Jun-98				
327	J738JE81590080	18	7	9:46	15-Jun-98				
328	J738ES81678103	6	20	12:45	15-Jun-98				
329	J738ES81678102	6	17	12:48	15-Jun-98			1248	228
	TOTAL TIMES DAILY AVERAGE	81 9.00	133 14,78		COUNT	9			

RECAPITULATION FOR 15 JUNE

9 DELIVERIES* 9 TOTAL DELIVERIES (INCL EXCLUDED DATA)

9 MINUTES AVG FROM SBSS TO P&D

14 MINUTES 47 SECONDS AVG FROM P&D TO CUSTOMER

EARLIEST DELIVERY 32 MINUTES****

LATEST DELIVERY 228 MINUTES****

C O U N T	DOC#	REC TO P&D	P&D TO CUST	TIME	DATE	\$60,000 attaches \$3.00	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
330	J738MR81630045	9	12	11:12	16-Jun-98	1112	132		
331	J738MR81600026	9	12	11:12	16-Jun-98				
332	J738MR81630076	8	7	11:18	16-Jun-98			1118	138
	TOTAL TIMES DAILY AVERAGE	26 8.67	31 10.33		COUNT	3		- 11	

RECAPITULATION FOR 16 JUNE

DELIVERIES* 5 TOTAL DELIVERIES (INCL EXCLUDED DATA)

8 MINUTES 40 SECONDS AVG FROM SBSS TO P&D

10 MINUTES 20 SECONDS AVG FROM P&D TO CUSTOMER

EARLIEST DELIVERY 132 MINUTES

LATEST DELIVERY 138 MINUTES

C O U N T	DOC#	REC TO P&D	P&D TO CUST	TIME	DATE	Earliest Receipt	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
333	J738MR81590013	6	20	9:39	17-Jun-98	939	39		
334	J738MR81630074	12	15	9:44	17-Jun-98				
335	J738MR81380030	7	15	9:44	17-Jun-98				
336	J738JE81660034	8	15	9:44	17-Jun-98				
337	J738MR81630049	5	23	9:57	17-Jun-98				
338	J738MR81630046	3	18	10:01	17-Jun-98				
339	J738MR81630078	4	18	10:01	17-Jun-98				
340	J738MR81630070	13	16	10:03	17-Jun-98				
341	J738MR81630072	12	16	10:03	17-Jun-98				
342	J738MR81630047	11	16	10:03	17-Jun-98				
343	J738JE81560009	9	13	10:06	17-Jun-98				
344	J738JE81660071	9	13	10:06	17-Jun-98				
345	J738JE81540030	6	13	10:06	17-Jun-98				
346	J738JE81170061	5	8	10:12	17-Jun-98				
347	J738JE81660061	5	8	10:12	17-Jun-98				
348	J738JE81358105	6	8	10:12	17-Jun-98				
349	J738JE81550080	2	11	11:12	17-Jun-98			1112	132
	TOTAL TIMES DAILY AVERAGE	123 7.24	246 14.47	10000000000000000000000000000000000000	COUNT	17			

RECAPITULATION FOR 17 JUNE

17 DELIVERIES* 17 TOTAL DELIVERIES (INCL EXCLUDED DATA)

7 MINUTES 14 SECONDS AVG FROM SBSS TO P&D

14 MINUTES 28 SECONDS AVG FROM P&D TO CUSTOMER

EARLIEST DELIVERY 39 MINUTES

LATEST DELIVERY 132 MINUTES

COUNT	DOC#	REC TO P&D	P&D TO CUST	TIME	DATE	Committee Co. Sec. 1984	Earliest Receipt (Minutes fr 9AM)		Latest Receipt (Minutes fr 9AM)
350	J738JE81660003	5	13	10:31	18-Jun-98	1031	31		
352	J738MR81680005	2	10	11:20	18-Jun-98				
353	B738JE81461080	9	42	12:00	18-Jun-98				
354	B738JE81550126	5	68	12:00	18-Jun-98			1200	180
	TOTAL TIMES DAILY AVERAGE	21 5.25	133 33.25		COUNT	4			

RECAPITULATION FOR 18 JUNE

4 DELIVERIES* 8 TOTAL DELIVERIES (INCL EXCLUDED DATA)

5 MINUTES 15 SECONDS AVG FROM SBSS TO P&D

33 MINUTES 15 SECONDS AVG FROM P&D TO CUSTOMER

EARLIEST DELIVERY 31 MINUTES

LATEST DELIVERY 180 MINUTES

TXCOS	April DOC#	REC TO	P&D TO CUST	TIME	DATE	Earliest Receipt	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
355	B738JE81660688	17	13	9:57	19-Jun-98	957	57		
356	B738JE81660690	19	13	9:57	19-Jun-98				
357	B738JE81620161	17	13	9:57	19-Jun-98				
358	J738MR81670079	24	21	10:44	19-Jun-98				
359	J738JE81670095	7	25	10:45	19-Jun-98				
360	J738MR81670080	6	30	10:46	19-Jun-98				
361	J738MR81490074	7	30	10:46	19-Jun-98				
362	J738MR81460067	13	44	10:49	19-Jun-98				
363	J738MR81390079	12	30	11:00	19-Jun-98				
364	J738SE81678110	13	30	11:00	19-Jun-98				
365	J738MR81630089	4	28	11:02	19-Jun-98				
366	J738JE81680121	6	27	11:03	19-Jun-98				
367	J738MR81600027	5	27	11:03	19-Jun-98				
368	J738MR81630092	4	23	11:03	19-Jun-98				
369	J738MR81630067	3	23	11:03	19-Jun-98				
370	J738JE81670059	38	25	11:05	19-Jun-98				
371	J738MR81310025	38	24	11:06	19-Jun-98			****	
372	J738MR81630066	4	23	11:07	19-Jun-98				
373	J738MR81630067	4	23	11:07	19-Jun-98				
374	J738MR81590012	39	23	11:07	19-Jun-98				
375	J738MR81630093	17	23	11:07	19-Jun-98				
376	J738MR81630068	12	23	11:07	19-Jun-98				
377	J738MR81630066	9	23	11:07	19-Jun-98				
378	J738M481630048	38	24	11:08	19-Jun-98				
379	J738JE81680090	3	19	11:11	19-Jun-98				
380	J738MR80260028	1	18	11:12	19-Jun-98				
381	J738JE81680084	13	- 11	11:19	19-Jun-98				
382	J738JE81690013	13	10	11:20	19-Jun-98				
383	J872TC80620164	1	20	14:42	19-Jun-98				
384	J738JE81130006	2	25	14:42	19-Jun-98			1442	342
	TOTAL TIMES DAILY AVERAGE	389 12.97	691 23.03		COUNT	30		-	

RECAPITULATION FOR 19 JUNE

30 DELIVERIES* 34 TOTAL DELIVERIES (INCL EXCLUDED DATA)

12 MINUTES 58 SECONDS AVG FROM SBSS TO P&D

23 MINUTES 2 SECONDS AVG FROM P&D TO CUSTOMER

EARLIEST DELIVERY 57 MINUTES

LATEST DELIVERY 342 MINUTES

C O U N T	DOC#	REC TO P&D	P&D TO CUST	TIME	DATE	Earliest Receipt	Earliest Receipt (Minutes fr 9AM)	Last Receipt	Latest Receipt (Minutes fr 9AM)
385	J738MR81470093	6	20	8:45	22-Jun-98	‡			
386	J738MR81590040	9	34	8:56	22-Jun-98				
387	J738MR81380129	26	22	9:08	22-Jun-98				
388	J738MR81330050	26	21	9:09	22-Jun-98				
389	J738JE81670091	21	19	9:11	22-Jun-98				
390	J738MR81630077	5	14	9:16	22-Jun-98				
391	J738JE81680082	1	13	9:17	22-Jun-98	917	17		
392	J738MR81700093	4	28	9:22	22-Jun-98				
393	J738MR81630093	7	24	9:36	22-Jun-98				
394	J738MR81630091	11	22	9:38	22-Jun-98				
395	J738MR81630092	11	26	9:39	22-Jun-98				
396	J738MR81630090	11	20	9:40	22-Jun-98				
397	J738MR81678108	16	21	9:44	22-Jun-98			-	
398	J738JE80610018	9	21	9:44	22-Jun-98				
399	J738MR81700104	9	19	9:45	22-Jun-98				
400	J738JE81680040	21	19	9:46	22-Jun-98	h			
401	J738MR81690031	8	14	9:46	22-Jun-98				
402	J738JE81690032	8	19	9:46					
403	J738JE81680081	15	10	9:50					
404	J738MR81630093	5	2					1003	63
	TOTAL TIMES DAILY AVERAGE	229 11.45	388 19.40		COUNT	20			-

RECAPITULATION FOR 22 JUNE

20 DELIVERIES* 25 TOTAL DELIVERIES (INCL EXCLUDED DATA)
11 MINUTES 27 SECONDS AVG FROM SBSS TO P&D
19 MINUTES 24 SECONDS AVG FROM P&D TO CUSTOMER
EARLIEST DELIVERY 17 MINUTES
LATEST DELIVERY 63 MINUTES

P & D Logbook Daily Delivery Analysis

	TOTAL TIME	TOTAL TIME		
	REC TO P&D	P&D TO CUST	# 6 F	*0=
DATE	(minutes)		# OF PACKAGES	# OF RUNS
8-May-98	314	539.28	23	2
11-May-98	10	86	3	1
12-May-98	16	34	2	2
13-May-98	312	365.45	19	4
14-May-98	110	395	10	2
15-May-98	46	70	4	1
18-May-98	6	48	2	1
19-May-98	21	70	3	1
20-May-98	75	175.77	12	3
21-May-98	155	629.37	31	4
22-May-98	380	897.51	44	5
26-May-98	70	323	14	4
27-May-98	139	323.82	16	5
28-May-98	224	438	23	3
29-May-98	147	279.99	26	2
1-Jun-98	147	689	24	4
2-Jun-98	351	1110.41	36	2
3-Jun-98	39	184	7	3
4-Jun-98	82	250	9	2
5-Jun-98	13	50	3	1
8-Jun-98	95	55	. 7	4
15-Jun-98	81	133	9	2
16-Jun-98	26	31	3	2 3 2
17-Jun-98	123	246	17	2
18-Jun-98	21	133	4	3
19-Jun-98	389	691	30	4
22-Jun-98	229	388	20	1

9.03
21.54
14.85

Average No of Daily Runs =

Time from SBSS Creation i	to P&D
Mean	9.17
Standard Error	0.40
Median	7
Mode	5
Standard Deviation	8.03
Sample Variance	64.44
Kurtosis	8.65
Skewness	2.55
Range	56
Minimum	1
Maximum	57
Sum	3694
Count	403
Confidence Level(95.0%)	0.79

The American Control	
Time from P&D to Cust	omer
Mean	21.51
Standard Error	0.62
Median	20
Mode	19
Standard Deviation	12.39
Sample Variance	153.56
Kurtosis	0.25
Skewness	0.62
Range	67
Minimum	1
Maximum	68
Sum	8645.6
Count	402
Confidence Level(95.0%)	1.22

Daily R	uns
Mean	2.62962963
Standard Error	0.245461065
Median	2
Mode	2
Standard Deviation	1.275453106
Sample Variance	1.626780627
Kurtosis	-1.03667625
Skewness	0.287635153
Range	4
Minimum	1
Maximum	5
Sum	71
Count	27

2.63

P & D Logbook Daily Delivery Analysis

Appendix C-1

Confidence Level(95.0%) 0.504552775

P & D Logbook Earliest-Latest Delivery Analysis

		ादश्च द्वित्रवाः। (M)mics=fa5/4M)
8-May-98	61	175
11-May-98	310	311
12-May-98	25	191
13-May-98	50	429
14-May-98	130	151
15-May-98	67	78
19-May-98	52	55
20-May-98	41	330
21-May-98	19	189
22-May-98	22	290
26-May-98	38	435
27-May-98	65	126
28-May-98	51	369
29-May-98	75	159
1-Jun-98	23	385
2-Jun-98	47	127
3-Jun-98	56	430
4-Jun-98	48	109
5-Jun-98	182	183
8-Jun-98	34	149
15-Jun-98	32	228
16-Jun-98	132	138
17-Jun-98	39	132
18-Jun-98	31	
19-Jun-98	57	<u> </u>
22-Jun-98	17	63

Earliest deliveries average 1 hour 6 minutes Latest deliveries average 3 hours 41 minutes

Earliest delivery was 17 minutes
Latest delivery was 7 hours 15 minutes

Analysis of Daily TMO Trips Post - Direct Ship

Post F	EDEX
FUSLI	
	# of
	trips to
Date	TMO
8131	4
8132	5
8133	3
8134	1
8135	2
8138	
8139	3
8140	3
8141	4
8142	1
8145	2
8146	2
8147	<u>3</u>
8148	1
8149	0
8152	2
8153	4
8154	2
8155	1 2
8156	2
8160	2
8161	1
8162	3
8163	2
8166	2
8167	3
8168	1
8169	1

Descriptive Statistics - Da	aily TMO Trips
Mean	2.18
Standard Error	0.22
Median	2
Mode	2
Standard Deviation	1.19
Sample Variance	1.41
Kurtosis	-0.18
Skewness	0.49
Range	5
Minimum	0
Maximum	5
Sum	61
Count	28
Confidence Level (95.0%)	0.46

Number of FedEx Shipments

		Number of
Julian	Number of	Oversize/
Date	FedEx Parcels	Overweight
8090	2	2
8091	13	3
8092	2	
8093	7	1
8096	2	3
8097	8	0
8098		0
8099	30	0
8100	8	1
8103	10	3
8104	2	0
8105	32	1
8106	7	3
8107	9	2
8110	1	
8111	6	0
8112	4	0
8113	1	3
8114	0	
8117	8	3 0
8118	2	2
8119	23	1
8120	1	1
8121	2	0
8124	2	3
8125	21	1
8126	7	
8127	29	2
8128	10	3 2 2 3
8131	4	3
8132	35	0
8133	6	2
8134	52	ō
8135	1	o
8138	14	*
8139	23	
8140	63	
8141	53	
8142	6	
8145	0	
8146	Ö	
8147	0	
8148	81	*
8149	43	
8152	11	
8153	26	<u> </u>
8154	9	
0104	<u> </u>	

Descriptive Statis	
FedEX Package F	low
Mean	14.6
Standard Error	2.092776
Median	9
Mode	2
Standard Deviation	16.8725
Sample Variance	284.6813
Kurtosis	3.786746
Skewness	1.915345
Range	81
Minimum	0
Maximum	81
Sum	949
Count	65
Confidence Level(95.0%)	4.180797

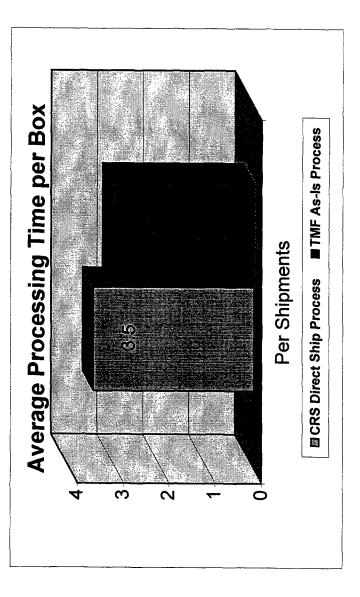
Descriptive Statist	rics
Number of Oversize/ Ov	erweight
Mean	1.411765
Standard Error	0.215767
Median	1
Mode	0
Standard Deviation	1.258129
Sample Variance	1.582888
Kurtosis	-1.665659
Skewness	0.114794
Range	3
Minimum	0
Maximum	3
Sum	48
Count	34
Confidence Level(95.0%)	0.438982

* Data collection suspended after Julian Date 8138

Julian Date	Number of FedEx Parcels	Number of Oversize/
8155	8	*
8156	21	*
8159	5	*
8160	2	*
8161	50	*
8162	6	*
8163	13	*
8166	18	*
8167	11	*
8168	19	*
8169	12	*
8170	9	*
8173	40	*
8174	15	*
8175	12	*
8176	11	*
8177	17	*
8181	1	*
8182	3	*

CRS Processing Times	Unit of Meas	Pkg 1	Pkg 2	Pkg 3	Pkg 4	Pkg 5	P. S.	Pkg Pkg	Pkg 8	Pkg 9	Pkg Pkg 10 11	Pkg 11	Pkg 12	Pkg 13	SUM	AVG.
PowerShip Times	Sec.	160	185	104	184	184 184.0	134	207	228	228 166.9	118	116	110	1	146 2042.86 157.1	157.1
SSC Processing Times	Sec.	32	31	32	132	2	78	4							365	52.14
			Γ	-							 					
Total average time																
to process	Sec.	209		209 s	econ	209 seconds = 3.5 minutes	5 min	ites							Total	209.3

	,
Pkg 17	3
kg 16	3
D 10	4
Pkg 15	2
Pkg 14	
Pkg 13	4
P. A.	2
Pkg 12	
Pkg 11	2
okg 10	က
kg Pi	2
kg P	2
B)	က
g Pk	2
Pkg 6	2
Pkg	4
Pkg 4	7
Pkg 3	5
Pkg 2	-
Pkg 1	2
AVG.	3.1
nit of Jeas	Min.
2	
mes	
ng Ti	t, print
S essii	s input
TRN	CMOS & labe



CRS-TMF Comparison Appendix C-4

NOTE: Times shown in hh:mm:ss

		Offic	oad Express (Carrier Truck		
<u>Carrier</u>	# Boxes	<u>Start</u>	Stop	Total Time	Total TMO	Total Supply
FedEx	~50	8:55:00	9:10:00	0:15:00	Shipment	Shipment
RPS	~20	9:56:00	10:05:00	0:09:00	Receiving Time	Receiving Time
					0:55:25	1:02:45

	TMC)-SUPS Receivin	g Processin	g Times
	CMOS scan	SUPS inspect.	REC Proc.	Print Time
	0:01:10	0:05:35	0:00:25	~15 seconds for all
		0:01:10	0:00:30	
		0:03:50	0:00:15	
		0:03:30	0:00:20	
		0:04:05	0:00:30	
		0:01:20	0:00:28	
		0:02:00	0:00:15	1
		0:01:50	0:00:27	Grand Total
TOTALS	0:01:10	0:23:20	0:03:10	0:00:15 <i>0:27:55</i>

	P&D	Delivery Times	to CRS Engi	ne Shop	
Quantity	<u>Holding</u>	<u>Loading</u>	<u>Delivery</u>	Off-loading	<u>Return</u>
2 pallets	0:07:00	0:05:15	0:07:20	0:08:50	0:06:00
					Grand Total
					0:34:25

Transportation Data (CRS to TMO), As of 16 Jun 98:

Time (Min.Se	Total	
с)	(Min.Sec)	Action
9.00	9.00	Move Boxes/Crates Out to Truck
4.00	13.00	Move Boxes/Crates Out to Truck
4.00	17.00	Move Boxes/Crates Out to Truck
8.00	25.00	Load Boxes/Pallets Onto Truck
10.00	35.00	Repair & Close Crate Lid
7.00	42.00	TRAVEL fr CRS to TMO (1 crate)
10.30	52.30	Unload Boxes/Pallets at TMO
6.00	58.30	TRAVEL to TMO fr CRS
Total Rd Trip 58.30		

Time (Min.Se c)	Total (Min.Sec)	Action
17.15	17.15	Load Boxes/Pallets Onto Truck
6.30	23.45	TRAVEL fr CRS to TMO (1 crate)
18.30	42.15	Unload Boxes/Pallets at TMO
6.05	48.20	TRAVEL to TMO fr CRS
Total Rd Trip 48.20		

	1.78	hours per day
X	2	people per trip
	3.56	hours/day
X	20.99	Avail days per month
	74.72	hours/month
÷	151.1	Man-hours Available

12	months per year
	The party and
896.64	hours per year saved
\$18.81	hourly rate (E-5)

DIRECT RECEIPT DATA

Times are in minutes

CRS Di	rect Receipt Samples
<u>Time</u>	<u>Items</u>
2.45	1 box
2.97	1 pkg - 4 items
6.15	1 pkg - 735 small items
2.00	4 pkgs
2.00	1 box
2.00	1 box
2.00	1 box
2.80	AVERAGE

2.8 minutes = 2 minutes 48 seconds average time to process a package

FEDEX PROCESSING TIMES

FedEx Processing Time
(includes weighing, processing, & SSC)
<u>Time</u>
0:03:30
0:02:30
0:02:10
0:02:30
0:03:35
0:03:59
0:03:37
0:03:00
0:02:37
0:02:30

Rough Estimates of Average Processing Time SrA Ray B.
0:00:45 2005
0:03:00 obtaining and packing box
0:04:00 inspection and SBSS processing

Note:
CRS FedEx Terminal closeout time = ~5 minutes
(only about 30 seconds human work time)

P &D SAVINGS COMPUTATION

	P&I	D Labor Savings from Direct Receipt For CRS		
		(times are in minutes)		
+	3.5	Avg P&D Load Time		
+ .	13	Avg Round Trip to CRS (see Transportation Data Tab)		
+	3.5	Avg P&D Unload Time		
· ·	20	Total P&D Time (1 Person/1 Round Trip Delivery to CRS)		
Х	2.6	Trips/ Day (P&D Logbook Analysis Tab F)		
]	52	Total Minutes per day for Deliveries to CRS (One Person)		
1	60	Minutes in a hour		
•	0.87	Hours Per Day		
Х	20.99	Days Per Month		
·	18.19	Hours Per Month		
Х	12	Months Per Year		
·	218.30	Hours Per Year		
Х	\$18.81	E-5 Hourly Pay Rate		
	\$4,106.15	Total Annual Savings from P&D for CRS Direct Receipt		

	LANGLEY AIR FORCE BASE
\$4,106.15	Annual CRS Engine Shop Savings for Direct Receipt
/ 21	CRS has 21% of Langley's Total DORs
= \$195.53	Savings for Each Percent of Langley's DORs
X 79	Percent Direct Ship from All Others (100 - 21 = 79%)
= \$15,446.95	Potential Savings for All Others (79%)
\$19,553.10	Total Potential Annual Savings Across Langley (CRS + Others)
	CATEGORY 1 BASES
(Langley, Davis Month	an, Holloman, Shaw, Barksdale, Moody, Mt Home, and Nellis)
\$19,553.10	Langley's Potential Total Direct Receipt Savings
X 8	ACC has 8 Category 1 Bases like Langley
\$156,424.76	Total Potential Savings for All Category 1 Bases
	CATEGORY 2 BASES
(Seymore Johnson, Dy	ress, Minot, Whiteman, Cannon, Ellsworth, Offutt, and Beale)
\$19,553.10	Potential Savings of a Category 1 Base
X 0.66	Category 2 Bases are approx. 2/3 size of Category 1 Bases
\$12,905.04	Savings Potential of a Category 2 Base
X 8	ACC has 8 Category 2 Bases
= \$103,240.34	Total Potential Savings for All Category 2 Bases
\$259,665.10	Total Potential Direct Receipt Savings for ACC

DIRECT SHIP SAVINGS COMPUTATION

DIRECT SHIP

Vehicle O&M Calculations:			
	3.6	miles (round trip)	
X	2	trips per day	
=	7.2	miles per day	
Х	\$0.23	Cost per mile	
	\$1.66	O&M Cost per day	
Х	20.99	days/month	
=	\$34.76	Cost per Month	
Х	12	Months/year	
=	\$417.11	O&M Savings per year	

CRS Engine Shop Labor Savings for Delivering Non Express Carrier Eligible Property From CRS to TMF			
	1.78	hours per day	
Х	2	people	
=	3.56	hours/day	
X	20.99	Available Days per Month	
=	74.72	hours/month	
1	151.5	Man-hour Availability Factor	
=	0.49	Authorization Savings	
	74.72	Hours Saved Per Month	
X	12	months per year	
=	896.64	hours per year saved	
Х	\$18.81	hourly rate (E-5)	
=	\$16,865.80	Annual Labor Savings	

+	\$417.11 \$16,865.80	O&M Savings per year Annual Labor Savings
=	\$17,282.91	Annual CRS Engine Shop Savings for Direct Ship

	F	rom	App	endi	x C-5		
Lang	gley A			RAF		ast \	(ear)
ACT (0.00)	Fotal :			P	er Mo	nth	
1	6,205				1,35)	

CRS processes an avg of 14.6 packages Per day x 20.99 = 306 packages per month. Therefore 306 divided by 1,350 = 23% of TMO's total small package workload.

Hence, 77% of Langley's FedEx Eligible Direct Ship Packages Did Not Come From CRS Engine Shop

-	\$17,282.91	Annual CRS Engine Shop Savings for Direct Ship
/	23	CRS has 23% of Langley's Total Direct Shipping
=	\$751.43	Savings for Each Percent of Langley's Direct Ship
X	77	Percent Direct Ship from All Others (100 - 23 = 77%)
=	\$57,860.18	Potential Savings for All Others (77%)
	\$75,143.09	Total Potential Annual Savings Across Langley (23% + 77%)
		CATEGORY 1 BASES
(Li	angley, Davis Mo	nthan, Holloman, Shaw, Barksdale, Moody, Mt Home, and Nellis)
	\$75,143.09	Langley's Potential Savings
X	8	ACC has 8 Category 1 Bases like Langley
	\$462,881.46	Total Potential Savings for All Category 1 Bases
		CATEGORY 2 BASES
(S	eymore Johnson	, Dyess, Minot, Whiteman, Cannon, Ellsworth, Offutt, and Beale)
	\$75,143.09	Potential Savings of a Cat 1 Base
X	0.66	_Category 2 Bases are approx. 2/3 size of Cat 1 Bases
	\$49,594.44	Savings Potential of a Category 2 Base
X	8	_ACC has 8 Category 2 Bases
	\$305,501.76	Total Potential Savings for All Category 2 Bases
	\$768,383.22	Total Potential Direct Ship Savings for ACC

CMOS HHT IN-CHECK TIMES

CMOS HHT INCHECK TIMES (in seconds)

Piece	Time (sec)
1	36.4
2	42.8
3	37.7
4	32.41
5	16.49
6	14.95
7	14.05
8	16.97
9	16.16
10	30.86
11	21.73
12	27.56
13	15
14	12.88
15	17.09
16	17.2
17	16.13
18	12.33
19	15.29
20	12.06
21	20.83
22	16.06
23	21.08
24	13.96
25	13.07
26	23.27
27	20.24
28	14.76
29	15.96
30	21.5
31	13.25 18.21
32	
33 34	12.79 12.73
35	
36	
37	20.82
38	

ST AND A CONTROL NOTE OF THE CONTROL	(Si See Si in Transport of See Si in See See See See See See See See See Se
HHT In-Check Times (se	conds)
Mean	20.32
Standard Error	1.53
Median	16.73
Mode	#N/A
Standard Deviation	9.41
Sample Variance	88.54
Kurtosis	3.93
Skewness	1.97
Range	41.97
Minimum	12.06
Maximum	54.03
Sum	772.18
Count	38
Confidence Level (95.0%)	3.09

AFCSS MICAP SECTION WORKLOAD

As of 30 Sep 98 (includes 13 contingency sites, Langley, Offutt, & Beale)

BASE	TOTAL MICAPS	NEW	TEX 7	TEX M	DATE
PSAB	178	26	26	0	25-Aug
JABER	73	10	10	0	25-Aug
KEFLAVIK	15	1	1	0	25-Aug
BRINDISI	5	1	1	0	25-Aug
ISTRIS	2	0	0	0	25-Aug
TAIF	3	1	1	0	25-Aug
TASZAR	9	2	2	0	25-Aug
AL DHAFRA	16	0	0	0	25-Aug
TUZLA	11	2	2	0	25-Aug
SubTot Deployed Units	312	43	43	0	25-Aug
OFFUTT	57	1	1	Ō	25-Aug
BEALE	23	1	1	0	25-Aug
LANGLEY	211	9	4	5	25-Aug
Total	603	54	49	5	25-Aug

BASE	TOTAL MICAPS	NEW	TEX 7	TEX M	DATE
PSAB	170	22	22	0	26-Aug
JABER	68	9	9	0	26-Aug
KEFLAVIK	15	1	1	0	26-Aug
BRINDISI .	5	1	1	0	26-Aug
ISTRIS	2	2	2	0_	26-Aug
TAIF	3	1	1	0	26-Aug
TASZAR	9	2	2	0	26-Aug
AL DHAFRA	16	0	0	0	26-Aug
TUZLA	11	0	0	0	26-Aug
SubTot Deployed Units	299	38	38	0	26-Aug
OFFUTT	58	14	7	7	26-Aug
BEALE	23	1	1	0	26-Aug
LANGLEY	219	10	4	6	26-Aug
Total	599	63	50	13	26-Aug

AFCSS MICAP SECTION WORKLOAD

BASE	TOTAL MICAPS	NEW	TEX 7	TEX M	DATE
PSAB	187	36	36	0	27-Aug
JABER	150	7	7	0	27-Aug
KEFLAVIK	17	2	2	0	27-Aug
BRINDISI	5	2	2	0	27-Aug
ISTRIS	2	0	0	0	27-Aug
TAIF	3	0	0	0	27-Aug
TASZAR	9	0	0	0	27-Aug
AL DHAFRA	7	0	0	0	27-Aug
TUZLA	11	0	0	0	27-Aug
SubTot Deployed Units	391	47	47	0	27-Aug
OFFUTT	57	7	4	3	27-Aug
BEALE	29	5	4	1	27-Aug
LANGLEY	221	0	0	0	27-Aug
Total	698	59	55	4	27-Aug

BASE TOTAL MICAPS NEW TEX 7 TEX M DATE **PSAB** 156 14 14 0 28-Aug JABER 12 157 12 0 28-Aug KEFLAVIK 16 5 0 28-Aug 5 BRINDISI 5 0 0 28-Aug 0 **ISTRIS** 0 0 0 0 28-Aug TAIF 2 28-Aug 0 0 0 TASZAR 9 0 0 0 28-Aug AL DHAFRA 16 0 ō 0 28-Aug TUZLA 11 0 0 0 28-Aug SubTot Deployed Units 372 31 31 28-Aug 0 OFFUTT 63 5 0 5 28-Aug BEALE 22 1 1 0 28-Aug LANGLEY 2 193 0 2 28-Aug Total 650 39 32 28-Aug

BASE	TOTAL MICAPS	NEW	TEX 7	TEX M	DATE
PSAB	166	18	18	0	29-Aug
JABER	73	5	5	0	29-Aug
KEFLAVIK	23	7	7	0	29-Aug
BRINDISI	5	1	1	0	29-Aug
ISTRIS	1	0	0	0	29-Aug
TAIF	2	0	0	0	29-Aug
TASZAR	9	0	0	0	29-Aug
AL DHAFRA	15	0	0	0	29-Aug
TUZLA	10	0	_ 0	0	29-Aug
SubTot Deployed Units	304	31	31	0	29-Aug
OFFUTT	56	2	1	1	29-Aug
BEALE	35	8	8	0	29-Aug
LANGLEY	183	6	6	0	29-Aug
Total	578	47	46	1	29-Aug

AFCSS MICAP SECTION WORKLOAD

	TOTAL AF	CSS N	MICAP SAI	MPLE	
BASE	TOTAL MICAPS	NEW *	TEX 7	TEX M	DATE
Total Deployed Units	1678	190	190	0	
Daily Avg Deployed Units	336	38	38	0	
Total OFFUTT	291	29	13	16	
Daily Avg Offutt	58	6	3	3	
Total BEALE	132	16	15	1	
Daily Avg Beale	26	3	3	0	
Total LANGLEY	1027	27	14	13	
Daily Avg Langley	205	5	3	3	
Sample Total	3128	262	232	30	
Avg Total Samples/ Day	626	52	46	6	

Avg Total Sample minus Avg New Starts/Day	626 - 52 =	574	# MICAPs In-Work
	574/626 =	92%	% MICAPs In-Work

^{*} New = New Starts. The data in the "New" Start Column is already counted in the

[&]quot;Total MICAPS" Column. Hence, MICAPs worked on prior to this date are equal to

[&]quot;Total MICAPS" minus "New" Starts. New Start Column Data is a sum of Tex 7 plus Tex M data.

As Is Description Type in User Name & Same Sort/Highlight Requisitions Wanted then Press Print key Call Automated DESEX- Select "Stock Availability" from Menu options, Type in the DoDAAC / SRAN (all alpha characters require 3 keystrokes each with phone ty keypad), Stock # Press Two Menu Options to get to Depot MICAP Customer Service, then the Command MICAP Technician must tell the Depot MICAP Customer Service Technician all		To Be Description Type in User Name & Password Check Locations to pull from then press "Get Tex 7/Tex M" Button	Key Strokes	Č	Percent
As Is Description Type in User Name & Same Sort/Highlight Requisitions Wanted then Press Print key Call Automated DESEX- Select "Stock Availability" from Menu options, Type in the DoDAAC / SRAN (all alpha characters require 3 keystrokes each with phone keystrokes each with phone ty keypad), Stock # Press Two Menu Options to get to Depot MICAP Customer Service, then the Command MICAP Technician must tell the Depot MICAP Customer Service Technician all	78.0 E	o Be Description User Name & ord Locations to pull from ess "Get Tex 7/Tex M"	Strokes Same	u C	To the second
Type in User Name & Password Sort/Highlight Requisitions Wanted then Press Print key Call Automated DESEX- Select "Stock Availability" from Menu options, Type in the DoDAAC / SRAN (all alpha characters require 3 keystrokes each with phone ity keypad), Stock # Press Two Menu Options to get to Depot MICAP Customer Service, then the Command MICAP Technician must tell the Depot MICAP Customer Service Technician all	E	Type in User Name & Password Check Locations to pull from then press "Get Tex 7/Tex M" Button	Same	רוו	ımproved
Sort/Highlight Requisitions Sort/Highlight Requisitions Wanted then Press Print key Call Automated DESEX- Select "Stock Availability" from Menu options, Type in the DoDAAC / SRAN (all alpha characters require 3 keystrokes each with phone tykeypad), Stock # Press Two Menu Options to get to Depot MICAP Customer Service, then the Command MICAP Technician must tell the Depot MICAP Customer Service Technician all	E	Password Check Locations to pull from then press "Get Tex 7/Tex M" Button	Same		
Sort/Highlight Requisitions Wanted then Press Print key Call Automated DESEX- Select "Stock Availability" from Menu options, Type in the DoDAAC / SRAN (all alpha characters require 3 keystrokes each with phone keystrokes each with phone ty keypad), Stock # Press Two Menu Options to get to Depot MICAP Customer Service, then the Command MICAP Technician must tell the Depot MICAP Customer Service Technician all	<u> </u>	Check Locations to pull from then press "Get Tex 7/Tex M" Button		0	0
Sort/Highlight Requisitions Wanted then Press Print key Call Automated DESEX- Select "Stock Availability" from Menu options, Type in the DoDAAC / SRAN (all alpha characters require 3 keystrokes each with phone ity keypad), Stock # Press Two Menu Options to get to Depot MICAP Customer Service, then the Command MICAP Technician must tell the Depot MICAP Customer Service Technician all		then press "Get Tex //Tex M" Button			
Wanted then Press Print key Same Call Automated DESEX-Select "Stock Availability" from Menu options, Type in the DoDAAC / SRAN (all alpha characters require 3 keystrokes each with phone (keypad), Stock # 33 Press Two Menu Options to get to Depot MICAP Customer Service, then the Command MICAP Technician must tell the Depot MICAP Customer Service Technician all	= =	Button	ı	,	,
Call Automated DESEX-Select "Stock Availability" from Menu options, Type in the DoDAAC / SRAN (all alpha characters require 3 keystrokes each with phone (types) Stock # Press Two Menu Options to get to Depot MICAP Customer Service, then the Command MICAP Technician must tell the Depot MICAP Customer Service Technician all	Itomated DESEX- "Stock Availability" from options, Type in the		Same	0	0
Select "Stock Availability" from Menu options, Type in the DoDAAC / SRAN (all alpha characters require 3 keystrokes each with phone keystrokes each with phone keypad), Stock # Press Two Menu Options to get to Depot MICAP Customer Service, then the Command MICAP Technician must tell the Depot MICAP Customer Service Technician all	"Stock Availability" from options, Type in the				
Menu options, Type in the DoDAAC / SRAN (all alpha characters require 3 keystrokes each with phone keypad), Stock # Press Two Menu Options to get to Depot MICAP Customer Service, then the Command MICAP Technician must tell the Depot MICAP Customer Service Technician all	options, Type in the	Highlight record, Press			
DoDAAC / SRAN (all alpha characters require 3 keystrokes each with phone keystrokes each with phone Press Two Menu Options to get to Depot MICAP Customer Service, then the Command MICAP Technician must tell the Depot MICAP Customer Service Technician all		"D035Level/Req" button,			
characters require 3 keystrokes each with phone lty keypad), Stock # Press Two Menu Options to get to Depot MICAP Customer Service, then the Command MICAP Technician must tell the Depot MICAP Customer Service Technician all	NC / SRAN (all alpha	Press "Login" button.		• ***	
keystrokes each with phone keypad), Stock # Press Two Menu Options to get to Depot MICAP Customer Service, then the Command MICAP Technician must tell the Depot MICAP Customer Service Technician all	ters require 3	Requires User Name and			
Press Two Menu Options to get to Depot MICAP Customer Service, then the Command MICAP Technician must tell the Depot MICAP Customer Service Technician all	kes each with phone	D035 Password the first time			
	Stock #	the User logs on that day.	3	30	91%
	Iwo Menu Options to				
	Depot MICAP Customer	After you ask for the Asset			
	e, then the Command	Level Availability from D035			
	Technician must tell	(above), a "Stock Level"			
Service T	pot MICAP Customer	window pops up showing			
_		what assets are on-hand at			
	information for a new	the depot. Highlight the asset			
D035- If still in requisition, and the Depot	tion, and the Depot	you want, Press "Request"			
	Customer Service	button, and the "D035 Item			
DESEX Phone Technician must key in all 80	cian must key in all 80	Request Form" pops up.			
Call data elements. 82		Press "Request Item" button.	က	79	%96

Tab B - Asls vs ToBe Process Appendix C-8

Page C-8-B1

As Is versus To Be MICAP Process

Process	As is Description	As is # Key Strokes	To Be Description	To Be # Key Strokes	DIFF	To Be Percent Improved
Requisition in D035- Call Automated DESEX Phone System *	Dial DSN phone#, Press Menu option for Depot MICAP Customer Service, then the Command MICAP Technician must tell the Depot MICAP Customer Service Technician all information for a new requisition, and the Depot MICAP Customer Service Technician must key in all 80 data elements.	06	After you ask for the Asset Level Availability from D035 (above), a "Stock Level" window pops up showing what assets are on-hand at the depot. Highlight the asset you want, Press "Request" button, and the "D035 Item Request Form" pops up. Press "Request Item" button.	က	87	%26
	Using MASS Tech goes two Tabs down to "Create Due-In Record" screen, Types in 14 digit Due-Out Document No.; one Tab down to SOS, types in 3 digit location code; one Tab down to Stock No., types in 13 digits; 3 Tabs down to Quantity, types in 5 digits; one Tab down to Requisition No., only has to type in last 8 digits; one Tab down to Demand Code, types in 1 digit, 4 Tabs down to Hour Code, types in 1 digit, 2 Tabs down to Priority, types in 2 digits; one Tab down to RDD, types in 3 digit		After you Requisition Asset from D035 (above), a "SBSS Request" window pops up for any Off-Line Requisiton (any	•		
Generate a SPR to SBSS	code; 2 Tabs down then clicks okay.	68	9000 requisition No.) . Press "Submit" button.	~	67	%66

Tab B - Asls vs ToBe Process Appendix C-8

As Is versus To Be MICAP Process

Process	As is Description	As is # Key Strokes	To Be Description	i o be # Key Strokes	DIFF	Percent Improved
Check D035	Call Automated DESEX- Select "Check Status" from Menu options, Type in		Highlight record, Press "D035 Status" button, Press "Login"			
Requisition Status- Through	Requisition # (alpha characters require 3		button. (Only requires User Name and D035 Password be			
Automated	keystrokes each with phone	28	typed in the first time the User logs on that day.)	ო	25	%68
	./		, ,			
Check D035			Highlight record, Press "D035 Status" button. Press "Login"			
Requisition			button. (Only requires User			
Status- Call Item	Call Item Manager by phone		Name and D035 Password be			
Manager Directly	Manager Directly using 9 digit DSN. Frequently		typed in the first time the User			,
using DSN *	busy and must re-dial.	6	logs on that day.)	3	9	%29
	Tech clicks on Web Server.					
	Clicks to goto approprite DLA					
	Web site address, types in					
Check DLA	Requisition No., then clicks to		Highlight record, Press"DLA			
Shipping Status	retreive status information.	17	Ship Status" button.	2	15	88%
Produce			برامونا مؤمل فمطين مو بادنان			
LOWEILOIIL			Cilch ori windt data to display,			
Charts of			Click on "Tools" from the			,
Requisition &		Not Not	menu bar, Click on which		2	°Z
Status Data	Manual Process	Available	Graph is required.	3	Compare	Compare
TOTAL		228		12	216	%56

* All Column Totals exclude these rows since it is already included in a previous row. Can be accomplished either way, but not both.

Page C-8-B3

As is versus To Be MICAP Process

TOTAL		228		12	216	%56
	Manual Process	Available	Available Graph is required.	3	Compare	Compare
Requisition &		Ş	menu bar, Click on which		<u>8</u>	°
Charts of			Click on "Tools" from the			
PowerPoint			Click on what data to display,			
Produce						
Status	retreive status information.	17	Ship Status" button.	2	15	88%
Check DLA	Requisition No., then clicks to		Highlight record, Press"DLA			
	Web site address, types in				-1	
	Clicks to goto approprite DLA					
	Tech clicks on Web Server,					
using DSN *	busy and must re-dial.	6	logs on that day.)	3	9	%/9
Manager Directly using 9 di	using 9 digit DSN. Frequently		typed in the first time the User			
Status- Call Item Call Item	Call Item Manager by phone		Name and D035 Password be			
Requisition			button. (Only requires User	-		
Check D035			Status" button, Press "Login"			
			Highlight record, Press "D035			
Process	As Is Description	Strokes	To Be Description	Strokes	DIFF	Improved
		Key		Key		Percent
*		As Is#		To Be#		To Be

* All Column Totals exclude these rows since it is already included in a previous row. Can be accomplished either way, but not both.

Page C-8-B4

Current & Future MICAP Keystroke Savings

Process	As is # Key Strokes	To Be# Key Strokes	DIFF	To Be Percent Improved	As of 30 Sep 1998 Approx. Keystrokes Saved/Day	As of 31 Dec 1999 Approx. Keystrokes Saved/Day
Log-On to SBSS/MASS	Same	Same	Ó	0	0	0
Pull-up Requisitions	Same	Same	0	0	0	0
Check D035 Asset						
Availability	33	3	30	91%	1560	11184
Requisition in D035- If still						
in Automated DESEX	ł					-
Phone Call	82	3	79	96%	4108	29451
Requisition in D035- Call						
Automated DESEX Phone						
System *	90	3	87	97%	4524	32434
Generate a SPR to SBSS	68	1	67	99%	3484	24978
Check D035 Requisition Status- Through Automated DESEX	28	3	25	89%	10045	75026
Check D035 Requisition Status- Call Item Manager Directly using DSN *	9	3	6	67%	2411	18006
Check DLA Shipping Status	17	2	15	88%	6027	45016
Produce PowerPoint						
Charts of Requisition &	Not		No			
Status Data	Available	3	Compare	No Compare	No Compare	No Compare
TOTAL	228	12	216	95%	25224	185654

^{*} All Column Totals exclude these rows since it is already included in a previous row. Can be accomplished either way, but not both.

As of 30 Sep 98- includes 13 contingency sites, Langley, Offutt, & Beale	
If 70% of the AFCSS Daily Avg for Total MICAPS are worked per day	402
Plus, All New Starts are worked each day	52
As of 30 Sep 98 Total Estimated MICAP Actions Worked/Day	454

As of 30 Sep 98: AFCSS had 626 Active MICAPS per day

52 of these (8%) were New Starts and 574 (92%) were MICAPs Already In-Work (Non-New Starts)

As of 30 Sep 98: ACC had Approximately 4,660 Active MICAPS per day Across All Locations

373	Estimated New Starts as of 31 Dec 1999 AFCSS Will Work (8% of 4660)
4287	Estimated Already In-Work (non-New Starts) as of 31 Dec 1999
	AFCSS Will Be Working (92% of 4660)

As of 31 Dec 99- includes 13 contingency sites & 19 Centralized Bases	
If 70% of AFCSS's Estimated 31 Dec 1999 non-New Starts are worked per day	3001
Plus, All AFCSS's Estimated 31 Dec 1999 New Starts are worked per day	373
As of 31 Dec 1999 Total Estimated MICAP Actions Worked/Day	3374

As Is MICAP Processing Times

#Sample	DEPOT	NSN	Check Asset Avail or Status w/ Telnet to D035 (Sec)	A0A/A0E/A 01/A05	DESEX Call In Requisition (Sec)	STATUS	Input SPR into SBSS w/ MASS (Sec) *
1	FLZ	5895-01-413-9798	35	A0A	120	B/O	
2	FLZ	5996-01-345-1134	15	A0A	45	B/O	
3	FHZ	1650-01-018-9089	60	A0A	150	BA	35
4	FLZ	5895-01-410-8359	52	A0A	180	B/O	
5	FHZ	6610-01-223-8179	78	A0A	210	B/O	
6	FLZ	5865-01-287-6182	38	A0A	120	B/O	
7	FFZ	6130-01-308-6187	45	A0A	300	B/O	
8	FFZ	5998-01-331-6940	25	A0A	120	B/O	
9	FHZ	1650-01-018-9089	40	A0A	660	BA	36
10	FLZ	5996-01-345-1134	-	A0A	10	B/O	
11	FLZ	5895-01-410-8359		A0A	60	B/O	
		Total D035	388		1975		71
		Avg D035	43		180		36

# Sample	DEPOT	NSN	Check Asset Avail or Status w/ DESEX (Sec)	A0A/A0E/A 01/A05	DESEX Call In Requisition (Sec)	STATUS	Input SPR into SBSS w/ MASS (Sec) *
1	S9C	4730-01-144-6344	45	A0E	300	BA	35
2	S9E	5935-01-029-6425	50	A0E	240	BA	34
3	S9I	5330-01-015-6889	45	A0A	300	B/O	
4	S9I	5310-01-060-1420	40	A0A	300	B/O	
5	S9C	2930-01-435-2616	40	A0E	420	BA	
6	S9G	1680-01-053-9320	35	A0E	300	BA	
7	S9G	5995-01-193-2524	40	A0E	180	BA	
8	S9G	5995-01-194-5615	30	A0E	180	BA	
9	S9E	5930-01-029-4130	35	A0E	360	BA	
10	S9C	2910-01-291-5902	40	A0E_	420	BA	
		Total DESEX	400		3000		69
		Avg DESEX	40		300		35
		Total Sample	788		4975		140
		Avg Sample	41		237		35

^{*} SPR Sample Times do not correspond to the specific NSN, just efficiency of display

		Š			As of 30 Sep 1998			As of 31 Dec 1999		
	As is Execute	Execute	Time	To Be	Approx. Time	As of 30 Sep 1998	As of 30 Sep 1998	Approx. Time	As of 31 Dec 1999	As of 31 Dec
Process	Time (Sec)	Time (Sec)	DIFF (Sec)	Percent Improved	Saved/Day (Sec)	Approx.\$ Saved ****	Approx.\$ Saved ****	Saved/Day (Sec)	Approx. \$	1999 Approx. \$ Saved ****
						Per Day	Per Year		Per Day	Per Year
Log-On to SBSS/MASS	Same	Same	0	0	0	0\$	\$0	0	0\$	\$0
Pull-up Requisitions	Same	Same	0	0	0	0\$	\$0	0	0\$	\$0
Check D035 Asset Availability-	41	ď	38	%E6	1976	\$10	\$2,601	14166	\$74	\$18.644
Check D035 Asset Availability Status- Through Telnet *	43) 60	40	93%	18152	\$11	\$2.737	14912	\$78	\$19,625
Requisition in D035- If still in Automated DESEX Phone Call	180	5	175	91%	9100	\$48	\$11,976	65240	\$341	\$85,861
Requisition in D035- Call Automated DESEX Phone System										
*	300	5	295	%86	15340	\$80	\$20,189	109976	\$575	\$144,736
Generate a SPR to SBSS	35	-	34	97%	1768	6\$	\$2,327	12675	\$66	\$16,681
Check D035 Requisition Status-	40	ო	37	%86	14867	878	\$19,566	111038	\$580	\$146,135
Check D035 Requisition Status-										
Call Item Manager Directly using DSN ***	237	ო	234	%66	94021	\$491	\$123,739	702243	\$3,669	\$924,204
Check D035 Requisition Status-										
Through Telnet *	43	က	40	93%	16072	\$84	\$21,152	120042	\$627	\$157,984
Check DLA Shipping Status	55	2	53	%96	21295	\$111	\$28,026	159055	\$831	\$209,328
Produce PowerPoint Charts of	Not		S N		No	oN	No	S N	%	8
Requisition & Status Data **	Available	က	Compare	No Compare	Compare	Compare	Compare	Compare	Compare	Compare
Print, E-Mail, or Export to File			:					1		
Data in Various Formats,e.g.,	to N		<u>ջ</u>		0 N	ON.	0 N	0 Z	0 N	<u> </u>
Excel, PowerPoint, Text **	Available	4	Compare	No Compare	Compare	Compare	Compare	Compare	Compare	Compare
TOTAL	351	14	337	%96	49006	\$256	\$64,495	362175	\$1,892	\$476,649
- H - O = +	•	- 11 -	17.	-10^{-1}		Clark and all backers and a selections	014040			

^{*} All Column Totals exclude these rows since an alternate method with less key strokes is also presented in the table and already included in the totals

Page C-9-B1

^{**} All Column Totals exclude these rows since there is no current As Is comparison

^{***} All Column Totals exclude this row since after checking status by automated sources, calling IM is still the last source

^{****} Dollar Savings are calculated using E-5 rates from SAF/FMBOP FY98 Military Rates Per Unit of Time - Air Force Based on FY 1999 President's Budget, in AFI 65-503 Table A20-1, 27 Feb 98

Current & Future MICAP Wrapper Time & Dollar Savings

	402	52	454
As of 30 Sep 98- includes 13 contingency sites, Langley, Offutt, & Beale	If 70% of Existing MICAPs In-Work are worked /day	Plus, All New Starts are worked each day	Total Average Active MICAPs AFCSS Worked/Day

As of 30 Sep 98: AFCSS had 626 Active MICAPS per day 52 of these (8%) were New Starts and 574 (92%) were MICAPs Already In-Work (Non-New Starts)

As of 30 Sep 98: ACC had Approximately 4,660 Active MICAPS per day Across All Locations

373	Estimated New Starts as of 31 Dec 1999 AFCSS Will Be Working (8% of 4660)
4287	Estimated Already In-Work (non-New Starts) as of 31 Dec 1999
	AFCSS Will Be Working (92% of 4660)

	3001	373	3374
As of 31 Dec 99- includes 13 contingency sites & 19 Centralized Bases	If 70% of Estimated MICAPs In-Work are worked/day	Plus, All Estimated New Starts are worked each day	Total Estimated Active MICAPs AFCSS will Work/Day

Appendix D

Appendix D

SUBJECT MATTER EXPERTS

The following personnel provided subject matter expertise as needed.

HQ ACC:

Paul Balint	Command Sys Database Analyst	TSgt	HQ ACC/LGSSS DSN 574-6575
David Belue	Supt. Retail Sales	MSgt	HQACC/LGSIP DSN 574-7817
Dave Budzinski	Supply Plans & Programs	CMSgt	HQ ACC/LGSIP DSN 574-7817
Patricia Cisneros	Cmd Traffic Mgmt. Supv	MSgt	HQ ACC/LGTT DSN 574-2639
Stephen Dawson	Plans, Policies and Procedures	LtCol	HQ ACC/LGQP DSN 574-5502
John Duncan	Command LGS Web Admin	TSgt	HQ ACC/LGSS DSN 574-6575
Jim Guest	Supply Plans and Programs	Civ	HQ ACC/LGSI DSN 574-7819
Allen Gwartney	Traffic Management Section Chief	Capt	HQ ACC/LGTT DSN 574-2639
John Huntzinger, Jr.	Supp Plans & Progs Branch Chief	LtCol	HQ ACC/LGSI DSN 574-7106
Don Izbicki	Traffic Management Flight	Civ	HQ ACC/LGTT DSN 574-2639
Pete Mooy	Maintenance Mgmt & Training	Col	HQ ACC/LGQ DSN 574-3793
Bill Root	Product Improvements	SMSgt	HQ ACC/LGQP DSN 574-2072
Joe Walls	Traffic Management	CMSgt	HQ ACC/LGTT DSN 574-2639

Air Force Contingency Support Squadron (AFCSS):

Helen Baxley	Supt, MICAP Centralization	MSgt	AFCSS/LGM DSN 574-3491
Brian Bowen	NCOIC MICAP Spec Mission Cell	TSgt	AFCSS/LGSWM DSN 574-3491
Curt Driggers	AFCSS Commander	LtCol	AFCSS/CC DSN 574-7226
Scott Earnst	MICAP Team	SSgt	AFCSS/LGSWM DSN 574-34391
Michael Garris	Computer Operations	TSgt	AFCSS/LGSPC DSN 574-3803
Ray Goodwin	Quality and Analysis	MSgt	AFCSS/LGSP DSN 574-1378
Robert Hunt	Supt, MICAP Team	MSgt	AFCSS/LGSWM DSN 574-3491
Rodney Kent	Application Developer	SSgt	AFCSS/LGSPC DSN 574-3803
Danny Kritzer	MICAP Centralization	TSgt	AFCSS/LHSWM DSN 574-3491
Hal Lare	Computer Operations	MSgt	AFCSS/LGSPC DSN 574-3803
Les Parnacott	Supply Manager	Civ	AFCSS/LGSA DSN 574-7226
Steven Ruggerio	Supt, Material Control	MSgt	AFCSS/LGSPS DSN 574-4994
Henry Whitaker	MICAP Team	TSgt	AFCSS/LGSWM DSN 574-3491

1st Fighter Wing:

John Culpepper	Commander, 1 st Logistics Group	Col	1LG/CC	DSN 574-4068
Frank DeLuca	Commander, 1 st Logistics Group	Col	1LG/CC	DSN 574-4068

1st Supply Squadron:

Steven Coy	Mat'l Storage & Distro Flight	1Lt	1SUPS/LGSD	DSN 574-2336
Mary Demmin	CRS Engine Shop	SSgt	1SUPS/LGSCE	DSN 574-0731

Appendix D

Jerris Ealy	NCOIC, Pickup & Delivery	MSgt	1SUPS/LGSDP	DSN 574-5276
David Graves	Chief of Supply	LtCol	1SUPS/CC	DSN 574-2201
James Hallada	Quality & Training Supt	MSgt	1SUPS/LGSPT	DSN 574-5865
Penny Hammero	HAZMART	MSgt	1SUPS/LGSDH	DSN 574-3837
Rosalyn Harmon	COSO Supt	CMSgt	1SUPS/LGSC	DSN 574-0070
Joseph Heeb	COSO Chief	Capt	1SUPS/LGSC	DSN 574-5620
Robert Hill	Stock Control	CMSgt	1SUPS/LGSD	DSN 574-2336
Pierre Marcellus		SMSgt	1SUPS/LGSPP	DSN 574-5135
Tim Martin	Mgmt & Systems Office Chief	Civ	1FW/LGSP	DSN 574-4751
Tony Montilla	Quality Assurance	SrA	1SUPS/LGSPT	DSN 574-5865
Bob Pappas	Deputy Chief of Supply	Civ	1SUPS/CC	DSN 574-3638
Carl Robinson		TSgt	1SUPS/LGSCS	DSN 574-0068
Roger Schall		TSgt	1SUPS/LGSCA	DSN 574-5696
T. J. Spann	Chief of Supply	LtCol	1SUPS/CC	DSN 574-2201
Billy Triggle	CRS Engine Shop	MSgt	1SUPS/LGSCE	DSN 574-4292

1st Transportation Squadron:

Paul Albert	Chief of Transportation	LtCol	1TRNS/CC	DSN 574-7607
Joseph Lehman	OS & D Clerk	Civ	1 TRNS/LGTTP	DSN 574-4563
Kenneth Patterson	Cargo Movements	MSgt	1 TRNS/LGTT	DSN 574-0064
Emilio Trevino	Flight Chief, Traffic Mgmt	Civ	1TRNS/LGTT	DSN 574-5171
Wyman Young	Outbound Freight	Civ	1TRNS/LGTT	DSN 574-7108

Appendix D Page 2 of 2

Appendix E

Appendix E

User Instructions for the SBSS/DO35 Program

The following is a brief description of the steps involved in using the SBSS/DO35 "Wrapper" software developed by Intergraph Corporation, for Langley AFB/ACC use.

Appendix E Page 1 of 9

Starting the Program

Locate the SBSS/DO35 Icon on the desktop and "double click" that icon.



Main Window

When you launch the wrapper you will see the main MICAP Automation window which contains the Request Form subwindow (see **Figure 1**). The Request Form subwindow is where most of the item processing takes place.

On the left side of the Request Form subwindow is a column of action buttons. These buttons are used to perform actions on the items. The grid in the middle of the form contains a view into the current "local" database that contains a list of MICAP items. At the top of the window is a group of boxes (*Document Number, RID, TEX Type, Stock Number, Action*) containing a detailed view of the currently selected item in the grid.

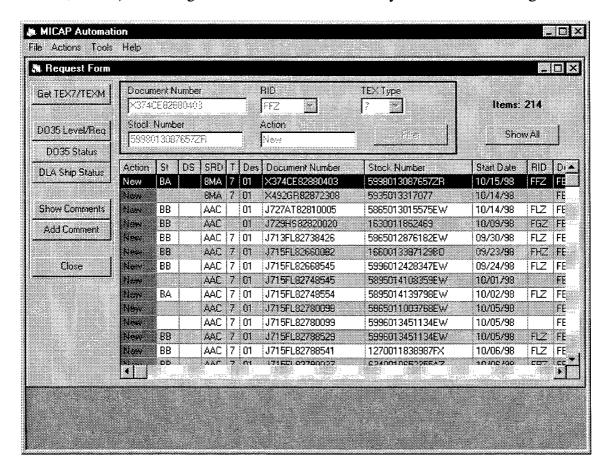


Figure 1 – MICAP Automation main window with the Request Form subwindow

Appendix E Page 2 of 9

You can resize both the MICAP Automation window and the Request Form subwindow to the size you prefer (see Figure 2).

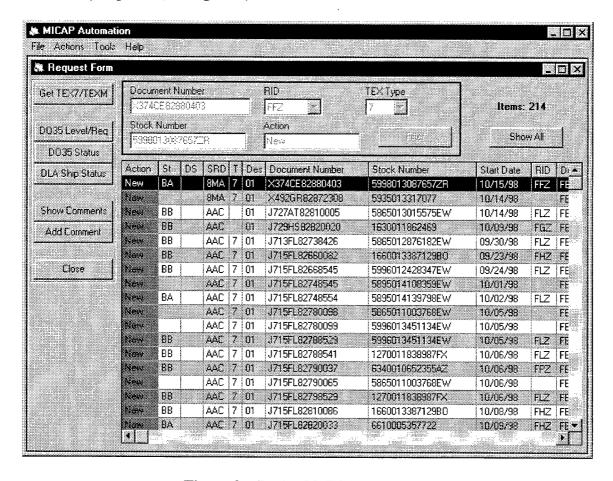


Figure 2 – Resized MICAP windows

Action Buttons

Get TEX7/TEXM

The Get TEX7/TEXM button is used to update the local database with the current list of TEX7s and TEXMs from the SBSS systems.

When you click this button the SBSS Login form is displayed. This form has a list of check boxes on the left and a group of username/password text boxes on the right (see Figure 3). You use the check boxes to select the SBSSs that you wish to pull the TEX7s and TEXMs from.

When you select an SBSS by clicking its checkbox, the corresponding username/password text box on the right will be enabled and its label will turn blue to indicate that you will be pulling items from that SBSS.

Appendix E Page 3 of 9

After you enter a username and password for all of the selected SBSSs, click the Login button. The wrapper pulls over the latest TEX7s from the selected SBSSs. This can take several minutes for each SBSS.

You can exit from this form without connecting to any of the SBSSs by clicking the Cancel button.

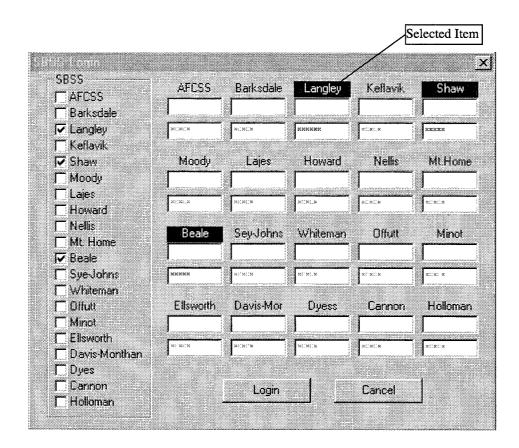


Figure 3 – SBSS Login form

Filter

The Filter feature is used to find an item or items of interest. It filters the list of items displayed on the Request Form according to your specifications.

You filter the list by selecting the label of a criterion field, which enables the corresponding text box or dropdown list, and turns the label blue. You then enter or select the criterion for the search (see **Figure 4**) and press the Filter button. Once the operation has completed, only the items matching the criterion you specified will be listed in the grid.

If you select multiple criteria, filtering will occur using a logical AND between all of them. This means the resulting list will consist of only those items which satisfy *all* specified criteria.

Appendix E Page 4 of 9

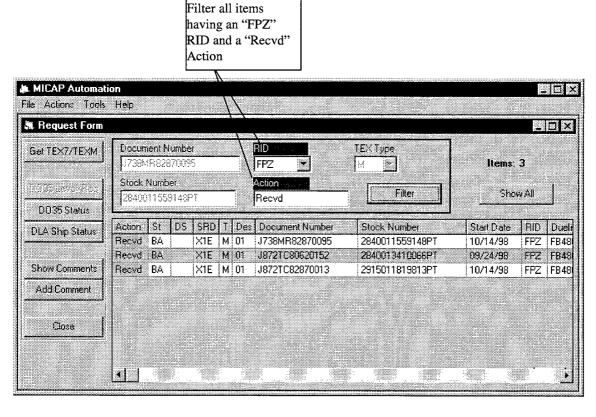


Figure 4 - Using the Search capability

Show All

The Show All button is used to populate the grid with all the TEX7s and TEXMs. If you have used Filter, which will likely shorten the list, you can use the Show All button to redisplay the entire list again.

DO35 Level/Req

The DO35 Level/Req button is used to check the availability of an item from the DO35 database, and then possibly requisition it.

Select an item with a status of "New" in the grid. Click on the DO35 Level/Req button. This brings up the DO35 Login form for the appropriate DO35 system, based on the DO35 code (see **Figure 5**).

When the user enters the username/password and hits the Login button the wrapper will connect to the DO35 system and check the supply level. If there is a positive level then a dialog box will pop up indicating the Source, Condition, and Quantity available. (Current capability allows for access to WR-ALC only. Access and permissions for other sites are forthcoming.)

Appendix E Page 5 of 9

The Action column for a given item can change from New \rightarrow Req \rightarrow Recvd. When the user has requisitioned the item the Action will change from New to Req. When the item is given a Stop Date in SBSS, its Action will change from Req to Recvd.

After the requisition is made the wrapper may perform an SPR back to DAAS (supplying usage, history, etc.) An SPR is generated only if an offline requisition is rerequisitioned or if an unprocessed item is requisitioned for the first time. In both these cases, the item would have a Due-In-Document-Number ending in 9000 or higher.

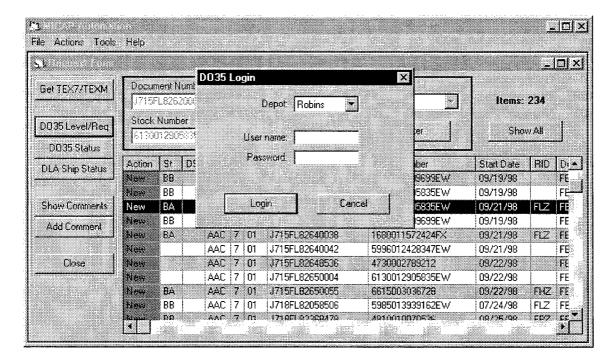


Figure 5 - DO35 Login form

DO35 Status

This button updates the status (the "DS" column) of the current item by checking the DO35 system.

Add Comment

This button allows you to add a comment for the selected item.

Show Comments

This button allows you to view the comments for the selected item.

DLA Ship Status

This button opens up a web browser. It then queries the DSS Requisition Tracking web site, using the currently selected item as the criterion (see **Figure 6**).

Appendix E Page 6 of 9

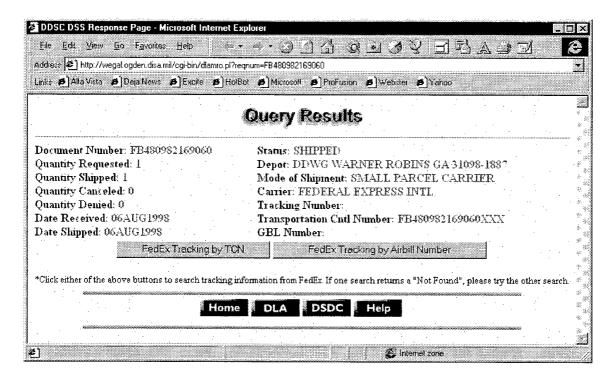


Figure 6 - Querying the DSS Requisition Tracking web site

Print

The Print feature is available under the "File" pulldown menu. It provides a formatted report of all the data or a selected subset of the data in the local MICAP database.

After selecting an Action on which to filter (**Figure 7**), a preview window (**Figure 8**) appears. From the preview window, the report can be printed, emailed, or exported by selecting the appropriate icon.

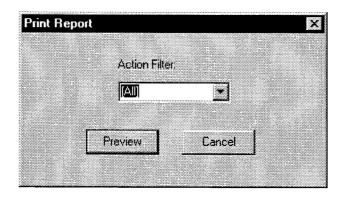


Figure 7 – Print Filter dialog

Appendix E Page 7 of 9

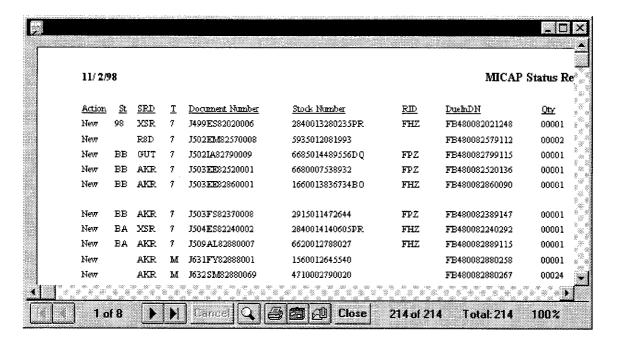


Figure 8 - Report Preview window

Graphs

Two graphs are available from the "Tools" pulldown menu.

Selecting "Display Age Graph" shows the age of the MICAP items broken down by age categories (see **Figure 9**). Selecting "Display Status Graph" shows the MICAP items broken down by status within each SRD category (see **Figure 10**).

Both graphs are based on the currently displayed set of data rather than the full local database, so filtering can be used to visually examine different data groups.

Appendix E Page 8 of 9

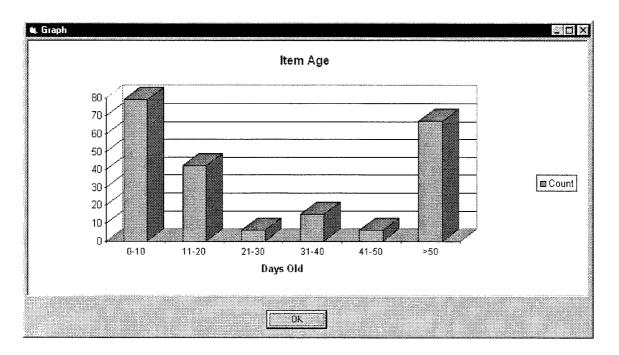


Figure 9 – Item Age graph

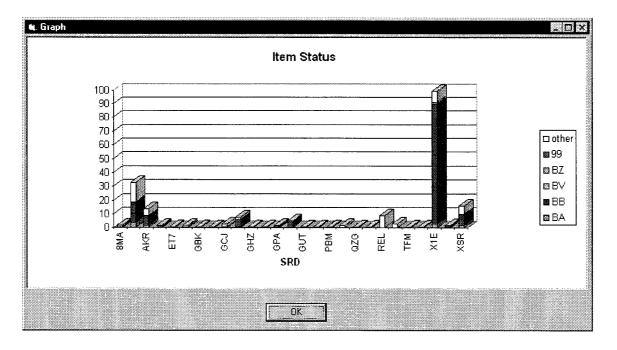


Figure 10 - Item Status graph

Close

This closes the Request Form subwindow. To exit from the MICAP Automation window as well, select Quit from the File pulldown menu.

Appendix E Page 9 of 9

REPORT DOCUMENTATION PAGE

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11. SUPPLEMENTARY NOTES

Phase I was completed and published by Intergraph Corporation in a separate 2-volume set: Volume 1, USAF Logistics Asset Sustainment As-Is Process Report, and Volume 2, As-Is Models.

12a. DISTRIBUTION/AVAILABILITY STATEMENT 12b. DISTRIBUTION CODE Approved for public release; distribution is unlimited. Α

13. ABSTRACT (Maximum 200 Words)

This USAF Logistics Process Optimization Study for the Aircraft Asset Sustainment Process -- Phase II Report is the second in a series of technical reports prepared under AFLMA Project LM9731101. It is published as three separate volumes.

Volume I, "USAF Logistics Process Optimization Study for the Aircraft Asset Sustainment Process -- Phase II Report," discusses the result and cost/benefit analysis of testing three initiatives at Langley Air Force Base as possible solutions to several findings discussed in the Phase I Report, USAF Logistics Asset Sustainment As Is Process.

Volume II, "To Be Models," contains the To-Be Retail Asset Sustainment Process Model displaying the activities and functions related to the improved processes for receipt, storage, issue and delivery of materiel as tested at Langley Air Force Base, Virginia.

Volume III, "Future Retail Aircraft Asset Sustainment Process Models," contains a discussion of the Reengineering Team's efforts in the development of a logistics process model for a more distant future asset sustainment scenario unconstrained by today's logistics information systems limitations. It also contains a process model reflecting the Reengineering Team's vision of the future asset sustainment process.

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